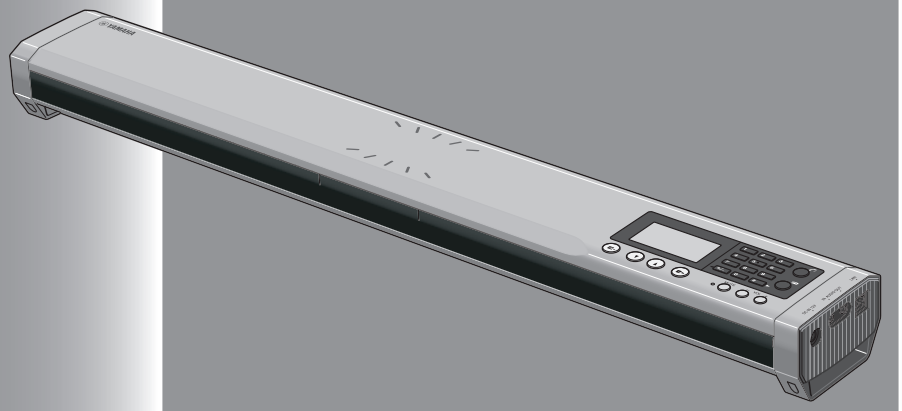
YAMAHA

PJP-100H

IP audio conference system

ProjectPhone



OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG

IMPORTANT SAFTY INSTRACTIONS

CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

- Explanation of Graphical Symbols

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

1 Read Instructions – All the safety and operating instructions should be read before the product is operated.

2 Retain Instructions – The safety and operating instructions should be retained for future reference.

3 Heed Warnings – All warnings on the product and in the operating instructions should be adhered to.

4 Follow Instructions – All operating and use instructions should be followed.

5 Cleaning – Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

6 Attachments – Do not use attachments not recommended by the product manufacturer as they may cause hazards.

7 Water and Moisture – Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

8 Accessories – Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer.

9 A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

10 Ventilation – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer’s instructions have been adhered to.

11 Power Sources – This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12 Grounding or Polarization – This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

13 Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14 Lightning – For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

15 Power Lines – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

16 Overloading – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

17 Object and Liquid Entry – Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

18 Servicing – Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19 Damage Requiring Service – Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a) When the power-supply cord or plug is damaged,

b) If liquid has been spilled, or objects have fallen into the product,

c) If the product has been exposed to rain or water,

d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,

e) If the product has been dropped or damaged in any way, and

f) When the product exhibits a distinct change in performance - this indicates a need for service.

20 Replacement Parts – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

21 Safety Check – Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

22 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.

23 Heat – The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

COMPLIANCE INFORMATION STATEMENT
(DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party: Yamaha System Technology Inc.
Address: 100 Century Center Court
san Jose, California 95112

Telephone: (408)467-2300
FAX: (408)437-8791

Type of Equipment: IP Audio Conference System
Model Name: PJP-100H

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interfernce that may cause undesired operation. See user manual instructions if interference to radio reception is suspected.

FCC INFORMATION (for US customers)

1 IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2 IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3 NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "A" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a commercial environment will not result in harmful interference with other electronic devices. However, operation of this product in a residential area is likely to cause interference in some form. In this case you, the user, bear the responsibility of correcting this condition.
This product generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the product "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either the product generating the interference or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker of fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact your local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

CAUTION: READ THIS BEFORE OPERATING YOUR UNIT.

1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.

2 Install this unit in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back of this unit — away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds.

4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in an environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.

5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:
   – Other components, as they may cause damage and/or discoloration on the surface of this unit.
   – Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
   – Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

7 Do not plug in this unit to a wall outlet until all connections are complete.

8 Do not operate this unit upside-down. It may overheat, possibly causing damage.

9 Do not use force on switches, knobs and/or cords.

10 When disconnecting the power cable from the wall outlet, grasp the plug; do not pull the cable.

11 Do not clean this unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.

12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified.

13 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any service is needed. The cabinet should never be opened for any reasons.

14 When not planning to use this unit for long periods of time (i.e. vacation), disconnect the AC power plug from the wall outlet.

15 Be sure to read the "Troubleshooting" section on common operating errors before concluding that this unit is faulty.

16 Before moving this unit, press and hold ☎ (Disconnect) for 3 seconds to set this unit in standby mode, and disconnect the AC power plug from the wall outlet.

17 Condensation will form when the surrounding temperature changes suddenly. Disconnect the power cable from the outlet, then leave the unit alone.

18 When using the unit for a long time, the unit may become warm. Turn the power off, then leave the unit alone for cooling.

19 Install this unit near the wall outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source as long as it is connected to the AC wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

FOR CANADIAN CUSTOMERS

To prevent electric shock, match wide blade of plug to wide slot and fully insert.
This Class A digital apparatus complies with Canadian ICES-003.

WARNING

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

WARNING

THE POWER SUPPLY CABLE OF THIS UNIT MUST BE CONNECTED TO THE MAIN SOCKET OUTLET VIA A PROTECTIVE EARTHING CONNECTION.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

■ For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note

The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

■ Special Instructions for U.K. Model

WARNING-THIS APPARATUS MUST BE EARTHED.

IMPORTANT

THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

GREEN-AND-YELLOW:EARTH
BLUE:NEUTRAL
BROWN:LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN-and-YELLOW.
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

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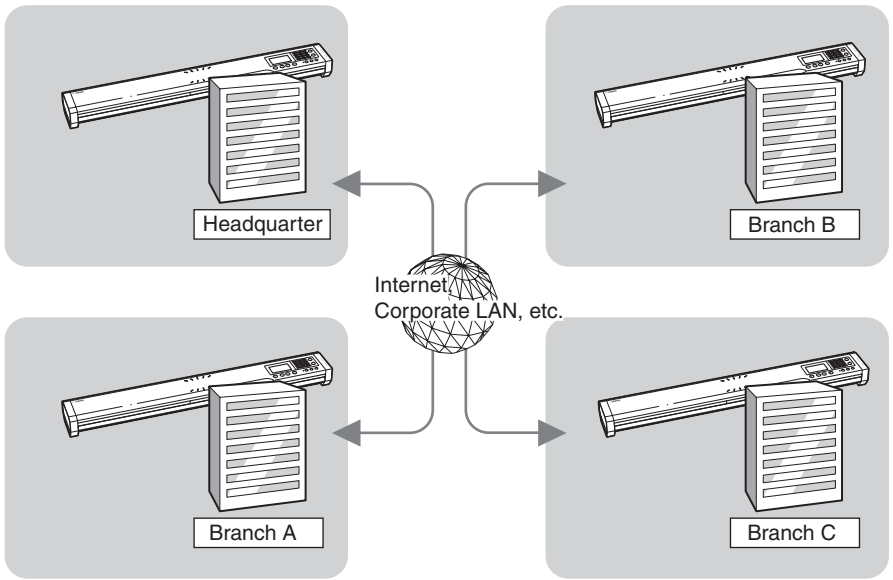
Features

This unit is an IP audio conference system that enables simultaneous talk between multiple locations (up to 4 locations for the mesh connection and up to 8 locations for the cascade connection) through networks including the Internet and corporate LAN.



Audio conference through networks

Audio conference can be held by connecting up to 4 locations for the mesh connection and up to 8 locations for the cascade connection through networks including the Internet and corporate LAN. The audio control employs digital signal processing so the participants can concentrate on talk without feeling the stress of delay or interruption of words.

Arrayed microphones and speakers for high audio quality

Depending on the using environment, the microphones can control the audio pickup area so that the clear conversation is assured. Also, the directivity of the speakers is controlled so that clear audio can be transmitted to the participants sitting in the optimum area even when the volume level is low.

Divide speaker mode for assigning a speaker output position to each talking location

When an audio conference involves more than two locations, the position from which the audio from a location is output can be assigned per location (Divide function). With previous audio conference systems, the distinction of the talker has been difficult because the audio from different locations have been mixed. This divide function makes it easy to distinguish the location of each talker and also improves the feeling of presence of the conference.

Settings from the PC

The [Web Settings Page] incorporated in this unit can be set from a PC without difficulty. The PC settings are convenient for editing the address book.

■ About this manual

- In this manual, the names of the following products are described as follows.
  - Yamaha PJP-100H: this unit
  - Yamaha IP Audio Conference System: PJP
  - Microsoft® Windows®: Windows
  - Microsoft® Windows XP®: Windows XP
  - 10BASE-T (100BASE-TX) cable: LAN cable
- The IP addresses, domain names and URL names mentioned in the setting examples are used merely for the purpose of ease of explanation. When you perform actual settings of this unit, be sure to set the addresses and names according to the actual configuration of your network.
- Details knowledge on the Internet and network may be required to utilize this unit at its full performance. As the provided manual does not give detailed technical information, please also refer to commercially available books as required.
- This manual is printed prior to production. Design and specifications are subject to change in part as a result of improvements, etc. In case of differences between the manual and the product, the product has priority.

■ About trademarks

- Ethernet is a registered trademark of Xerox Corporation.
- Microsoft, Windows and Microsoft Excel are registered trademarks of Microsoft Corporation in the United States and other countries.
- Adobe and Acrobat are registered trademarks of Adobe Systems, Inc.

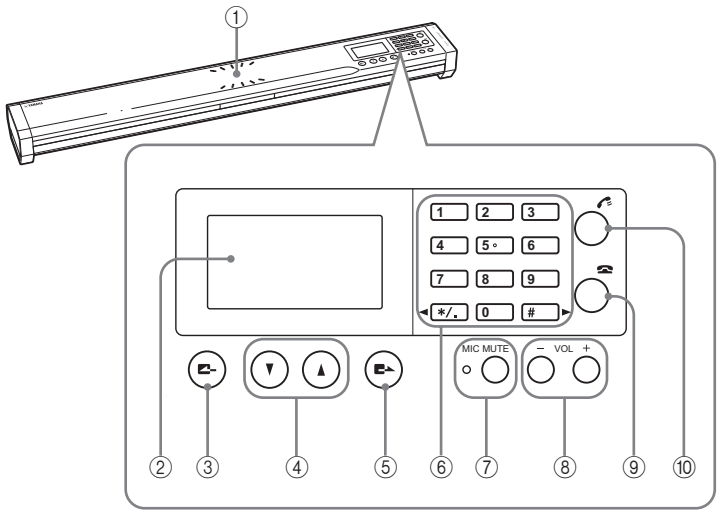
Supplied Accessories

This product includes the following accessories. Before connecting this system, make sure you received all of the following parts.

- **AC adapter (PJP-PS01) x 1**
- **Power cable x 1**
- **LAN cable x 1**
- **Pad x 3**
- **Owner's Manual (This manual) x 1**
- **Warranty card x 1**

Controls and Functions

■ Top panel



① Microphone indicators

A blue LED lights to indicate the audio pick up area.

② Display

The LCD shows the current status of this unit (page 7).

③ (Cancel)

Press the key to cancel a setting without saving it or to return to the previous page.

④ ▲ / ▼ (Up/Down)

Press either key to select a setting item or move the cursor up or down.

⑤ (Enter)

Press the key to enter a setting.

⑥ Numeric keys

Press the keys to enter the figures of the call destination or IP address.

⑦ MIC MUTE

Press the key to temporarily defeat (mute) the microphones of this unit. The LED to the left of the key lights in red during muting.
Pressing the key again during muting cancels it and turns the LED off.

⑧ VOL +/–

Press either key to adjust the speaker volume. Holding either key increases or decreases the volume continuously.

⑨ (Disconnect)

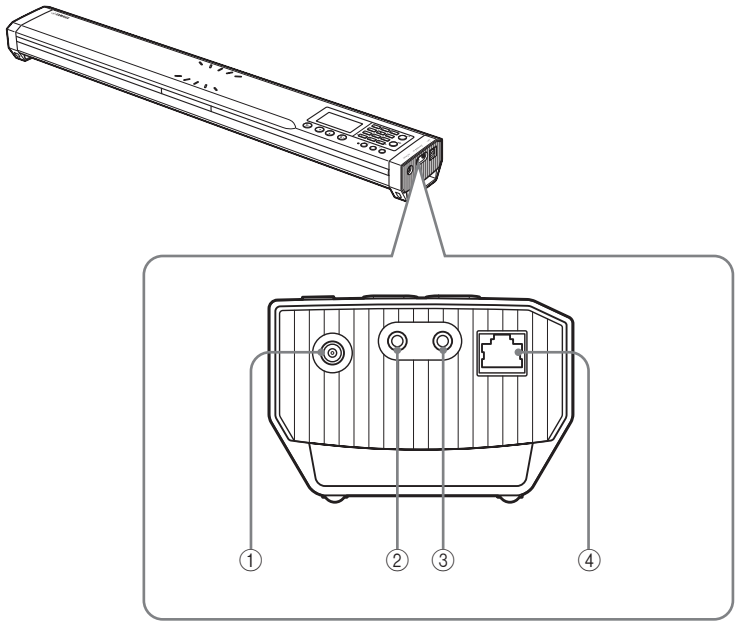
Press the key to end a call. Pressing the key when there is an incoming call can deny its termination.

Pressing and holding (Disconnect) for 3 seconds sets this unit to the standby mode. When this unit is in the standby mode, it can be turned on again by pressing any key.

⑩ (Connect)

Press the key when placing a call to the designated destination or receiving an incoming call.

■ Right side panel



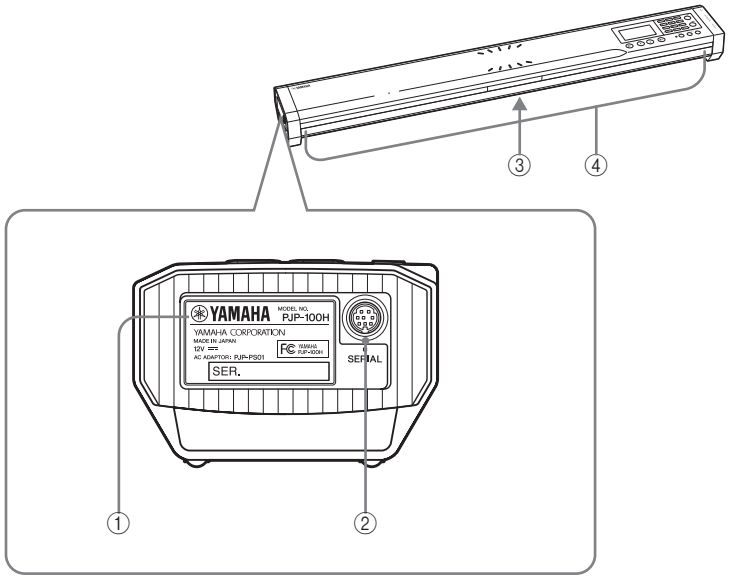
① DC IN 12V terminal
Connect the provided AC adapter.

② AUDIO IN terminal
Connect to the line output of an audio equipment or PC.

③ AUDIO OUT terminal
Connect to the line input of an audio equipment or PC. Connecting this terminal to a commercially available IC recorder makes it possible to record the audio in the conference.

④ LAN port
Connect a LAN cable for connection to network equipment such as a PC, router or hub.

■ Other



① Serial label

The label carries the following information.

- **MODEL No.**: Model number of this unit.
- **SER.**: Serial number for use in management/ distinction of this unit.

② SERIAL terminal

Reserved for future extension.

③ Arrayed speakers (Bottom panel)

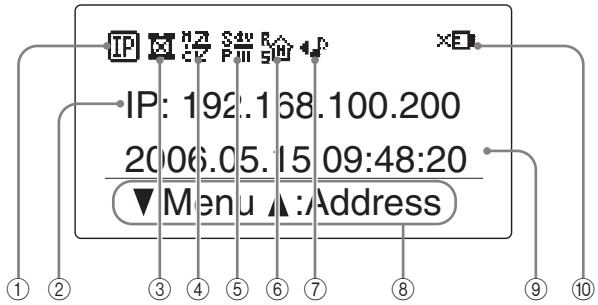
Twelve speakers are arrayed on the bottom panel for use in output of the audio from the unit(s) communicating with this unit.

④ Arrayed microphones (Side panels)

Sixteen microphones are arrayed on each side panel for use in capturing the voices of the talkers.

■ Display

Example of the initial display



① Calling method indicator

The indicator shows the connection method used for the current call.

- IP Call by designating the IP address.
- SIP Call using a SIP server.

② IP address

The IP address of this unit is displayed.

③ Connection mode indicator

The indicator shows the mode of connection with other units. See "Configuring the connection mode" (page 27) for details.

- Mesh mode
- Cascade Server mode
- Cascade Client mode

④ Microphone mode indicator

The indicator shows the current microphone mode. See "Selecting the audio pickup area (microphone mode)" (page 28) for details.

- Zone mode
- Spot mode
- Tracking mode

⑤ Speaker mode indicator

The indicator shows the current speaker mode. See "Configuring the speaker mode" (page 29) for details.

- Divide mode
- Monaural mode
- Small Area mode
- Medium Area mode
- Large Area mode

⑥ Room size indicator

The indicator shows the current room size setting. See "Configuring the room size" (page 30) for details.

- Large setting
- Medium setting
- Small setting

⑦ External input/output indicator

The indicator shows the current external input/output setting. See "Configuring the external input/output setting" (page 30) for details.

- **(No indication)**: External input/output is not set.
- External audio equipment can be connected to this unit.

⑧ Operation guide

The names of the currently available operations and their keys are displayed.

⑨ Present time display

The present date and time are displayed.

Note

The present time cannot be displayed in an environment in which the SNTP server is not available. See "Setting Date and Time" (page 37) for details.

⑩ Connection error indicator

The indicator is displayed when there is a problem with the network connection. It is not displayed usually.

Preparation Procedure

The following preparation steps should be completed before using this unit.

Step 1: (page 9)
Connecting this unit to the network and turning this unit on

↓

Step 2: (page 10)
Registering the network settings of this unit
The setting method is variable depending on whether or not the network uses the DHCP server.

↓

Step 3: (page 14)
Installing this unit in the conference room

To configure the settings from a PC

This section describes the preparation method using the keys on this unit, but the same settings are also available by accessing the "Web Settings Page" from a PC. See "Configuring settings using the web menu" (page 25) for details.

Note

Some functions such as the address book setting cannot be set using the keys on this unit alone.

To use this unit with a SIP server

The settings have to be performed by accessing the "Web Settings Page" from a PC. See "Registering the SIP server information" (page 35) for details.

■ Notes on system connection

Please check the following before proceeding to preparation.

LAN cable

Prepare a 10BASE-T or 100BASE-TX LAN cable.

Information on the network accommodating this unit

Obtain or decide the following information prior to installation of this unit.

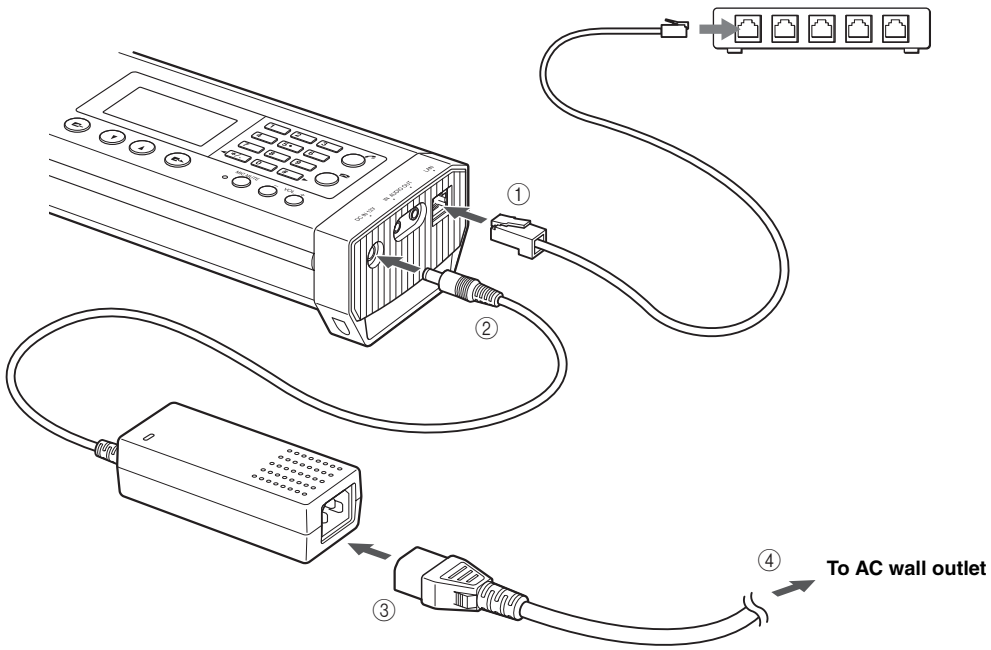
- IP address and subnet mask settings of this unit
- IP addresses of the default gateway and DNS server used by this unit

Notes on the network accommodating this unit

- When using this unit in the Internet, it is basically required to obtain a global IP address.
- When using this unit in a corporate LAN, it cannot be connected to equipment outside the firewall. However, as calls may become possible by changing the settings of the router, please consult your network administrator for details. This unit uses a port number of 5060 (UDP) for SIP, and 57000 to 57010 (UDP) for RTP/RTCP.
- To prevent the audio from being interrupted, it is recommended to use a network that can offer enough transmission bandwidths. See "Specifications" (page 53) for details.
- If "CODEC Line Adapt" (page 31) is set to "Enable" and the allocation of transmission bandwidth descends during a call, this unit selects the optimum encoding method for the network situations automatically.

Step 1: Connecting this unit

Follow the procedure below to connect this unit to the network, and then connect the AC adapter.



1 Using a LAN cable, connect the LAN port of this unit to the network.

2 Connect the AC adapter to the DC IN 12V terminal.

3 Connect the power cable to the AC adapter.

4 Connect the power cable to the AC outlet.
This unit is turned on and the microphone indicators light up in sequence.

■ Standby mode

Pressing and holding ☎ (Disconnect) for 3 seconds sets this unit to the standby mode. In the standby mode, "STANDBY" is displayed on the screen of this unit.

To exit the standby mode and switch this unit on again:

Press any key.

Step 2: Registering the network settings of this unit

Register the IP address and subnet mask of this unit, and the default gateway and DNS server used by it according to the environment of the LAN in which this unit is accommodated. The operation is different depending on whether or not the DHCP server is used.

Note

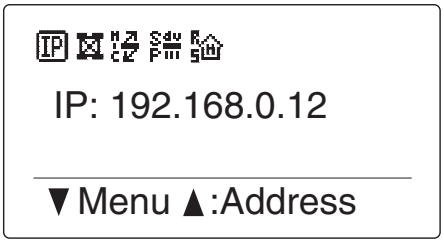
Set a unique IP address to this unit so that it does not overlap with the IP address of any other equipment already existing in the LAN.

■ Obtaining the IP address automatically

When this unit is used in a network containing a DHCP server, no setting operation is required since the DHCP server assigns all of the necessary network information automatically.

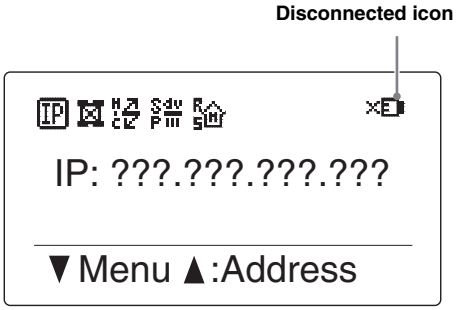
To check if the correct network information is obtained

Confirm that the IP address of this unit is displayed in the initial display as shown below.



If the IP address display is "???.???.???.???"

The network information is not obtained correctly.



If the disconnected icon is displayed, this unit is not connected properly to the network.

- Check if the LAN cable is connected properly.
- Check the condition of the network to which the LAN cable is connected.

If the icon is not displayed, the network information is not obtained from the DHCP server.

- There may be a network fault between this unit and the DHCP server. Consult your system administrator to solve the trouble with the network.
- If the problem cannot be solved, register the network information manually (page 11).

■ Assigning the IP address manually

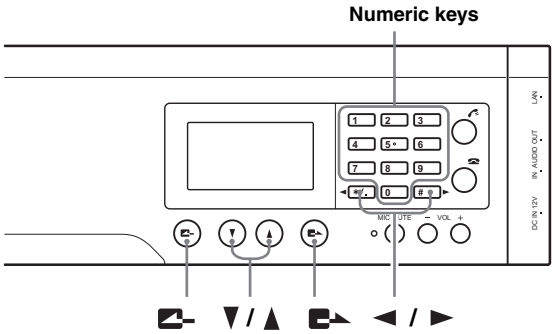
Follow the procedure below to register the network information manually.

Note

Before setting the network information, check that this unit is connected properly to the network. If the disconnected icon (page 10) is displayed on the top right of the display, check the LAN cable connection and the condition of the network to which the LAN cable is connected.

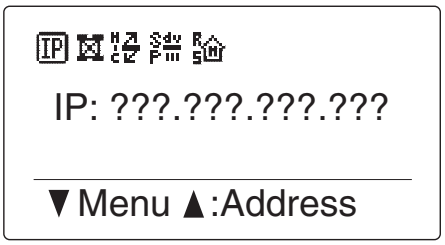
The factory settings of the network information are as follows.

- IP address: 192.168.100.200
- Subnet mask: 255.255.255.0
- Default gateway: 0.0.0.0



1 Press ⏎ repeatedly until the initial display appears.

"???.???.???.???" is displayed when the DHCP server does not exist in the network, and the IP address obtained from the DHCP server is displayed when it exists.

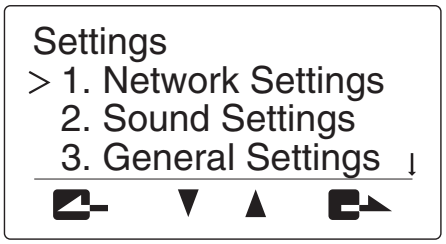


2 Press ▼.

The menu screen appears.

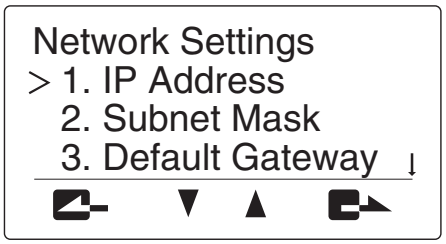
3 Press ▲ or ▼ to select "1. Settings", and then press ⏎.

The "Settings" menu appears.

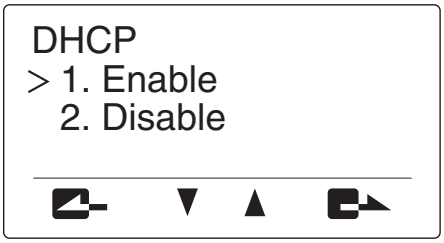


4 Press ▲ or ▼ to select "1. Network Settings", and then press ⏎.

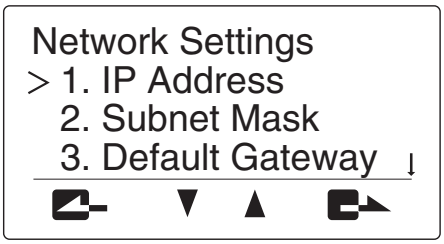
The "Network Settings" menu appears.



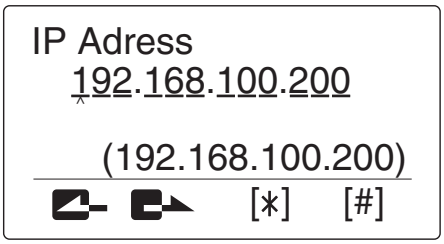
5 **Press ▲ or ▼ to select "5. DHCP", and then press ↵.**
The "DHCP" menu appears.



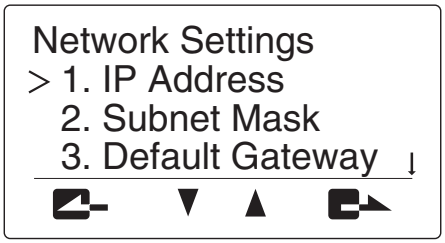
6 **Press ▲ or ▼ to select "2. Disable", and then press ↵.**
The "Network Settings" menu reappears.



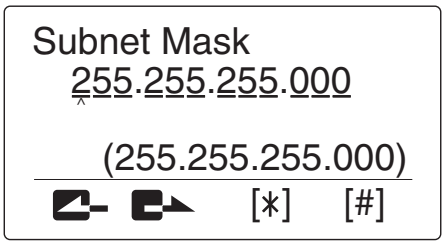
7 **Press ▲ or ▼ to select "1. IP Address", and then press ↵.**
The "IP Address" menu appears.



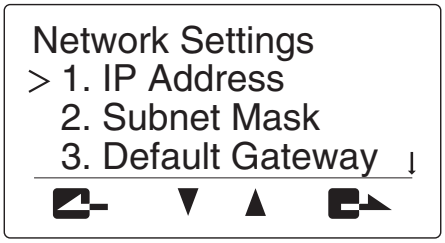
8 **Use the numeric keys to enter the IP address of this unit, and then press ↵.**
The entered IP address is registered and the "Network Settings" menu reappears.



9 **Press ▲ or ▼ to select "2. Subnet Mask", and then press ↵.**
The "Subnet Mask" menu appears.

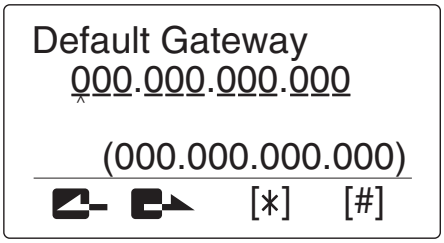


10 **Use the numeric keys to enter the subnet mask of this unit, and then press ↵.**
The entered subnet mask is registered and the "Network Settings" menu reappears.



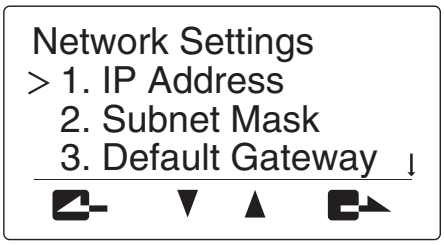
11 Press ▲ or ▼ to select "3. Default Gateway", and then press ↵.

The "Default Gateway" menu appears.



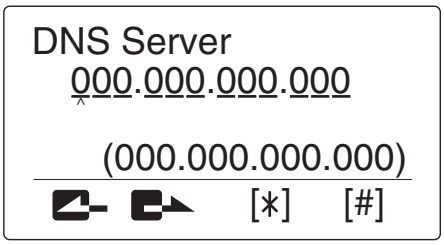
12 Use the numeric keys to enter the "Default Gateway" of this unit, and then press ↵.

The entered "Default Gateway" is registered and the "Network Settings" menu reappears.



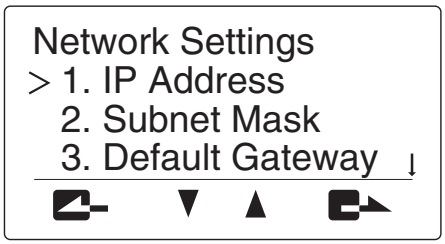
13 Press ▲ or ▼ to select "4. DNS Server", and then press ↵.

The "DNS Server" menu appears.



14 Use the numeric keys to enter the IP address of the DNS server referenced by this unit, and then press ↵.

The entered DNS server IP address is registered and the "Network Settings" menu reappears.

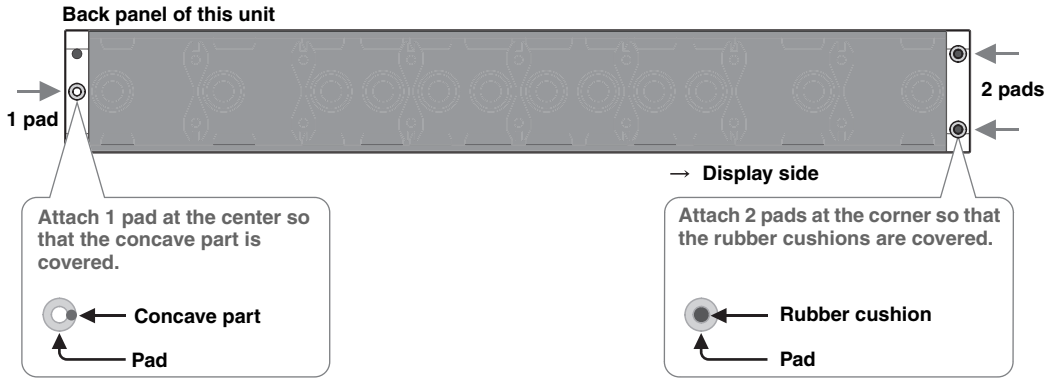


Step 3: Installing this unit in the conference room

After completing the settings, follow the procedure below to install this unit in the place of conference, such as a conference room.

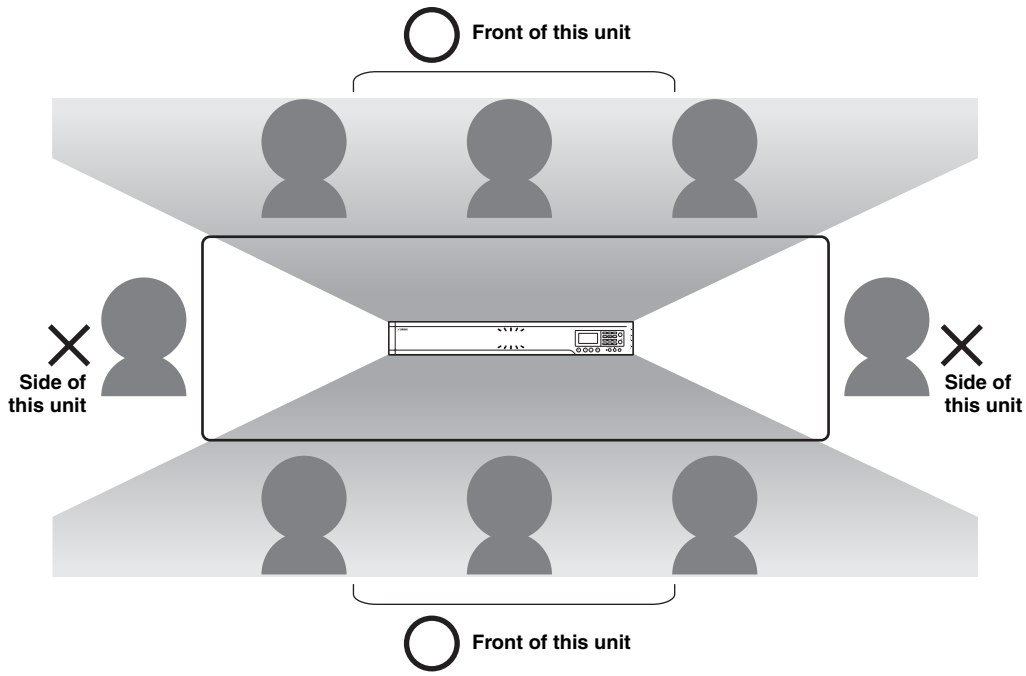
■ About installation environment

The speakers of this unit are attached in the downward orientation on the bottom panel. Place this unit horizontally on a desktop without placing any object below this unit. In case you cannot place the unit stably because of the shape of the desk or other reasons, attach the supplied pads (3 pieces) as illustrated.


Back panel of this unit
1 pad
2 pads
→ Display side
Attach 1 pad at the center so that the concave part is covered.
Concave part
Pad
Attach 2 pads at the corner so that the rubber cushions are covered.
Rubber cushion
Pad

■ Take the positions of the talkers in consideration

To assure the clear conversation by making the most of the effect of arrayed microphones and speakers, place this unit so that the talkers sit at the area highlighted on the following figure.



Note

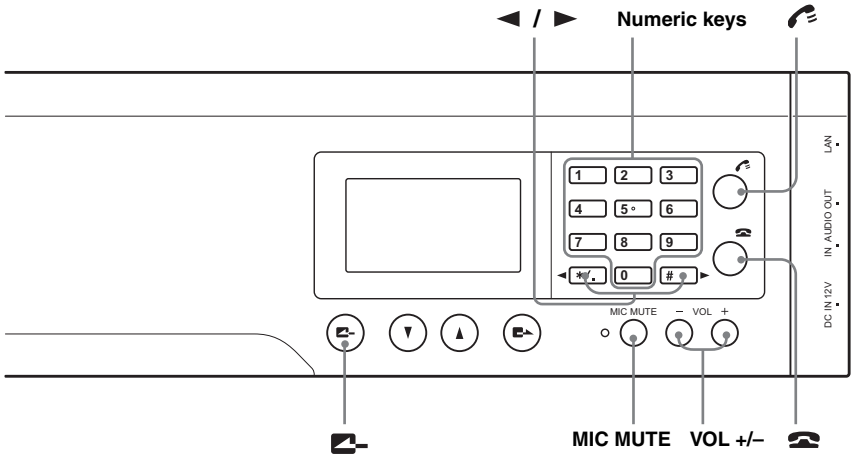
The microphones cannot pick up the audio clearly when the talker sits in one of the positions marked " ✕ " in the figure above.

Depending on the using environment, you can configure the setting of the audio pickup area. Refer to "Selecting the audio pickup area (microphone mode)" (page 28) for details.

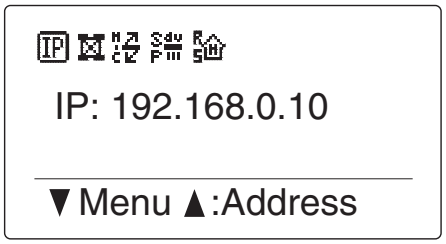
Making a Call

Calling another unit by specifying an IP address

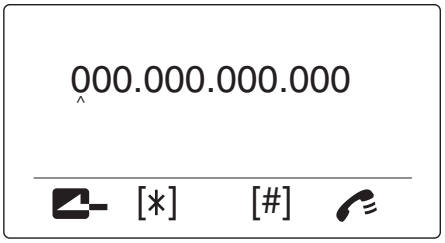
Follow the procedure below to specify an IP address to call another unit. Both PJP units should be turned on and connected to the network with a LAN cable.



1 **Press ⏎ repeatedly until the initial display appears.**



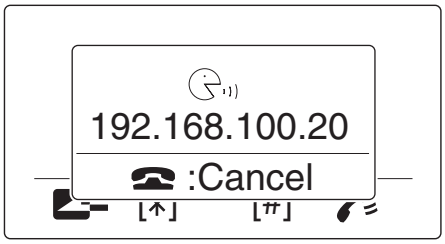
2 **Use the numeric keys to enter the IP address of the destination unit.**



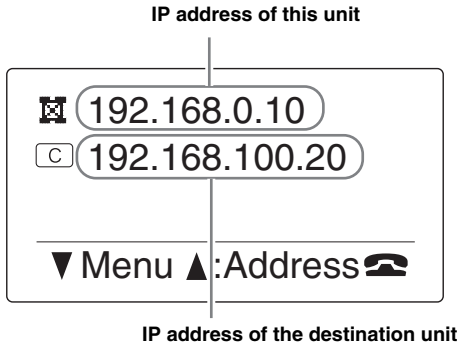
If you make an entry mistake, press ◄ (*) or ► (#) to move the cursor below the number you want to correct, and use the numeric keys to enter the correct figure.

3 **Press ☎.**

The calling display appears.



The following display appears if the call is connected by pressing on the destination unit and conversation becomes available.



Notes

- Do not disconnect the LAN cable or power cable during a call. Doing so may cause malfunction.
- If the call failed, check the following.
  – The destination unit is turned on.
  – This unit is connected to the network properly.
  – Check the call history (page 32) to identify the cause of the trouble.
  – See "Q3: Call is impossible" (page 48).

4 To adjust the speaker volume, press VOL +/ –.

5 To disconnect the call when the conference is complete, press .

■ To mute the microphone

When you want to talk about a topic that you do not want to be heard by the other unit(s) involved in the call, press MIC MUTE. The microphones of this unit are turned off while the MIC MUTE LED lights up. To cancel muting, press MIC MUTE again so that the MIC MUTE LED turns off.

The microphone indicators (blue LEDs) do not light up while the microphones are muted.

■ To make a call involving multiple locations

See "Talking with Multiple Locations" (page 21).

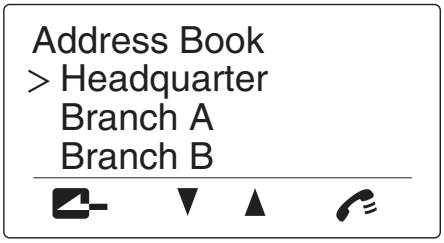
Calling another unit using the address book

Follow the procedure below to call another unit registered in the address book.

You can edit and manage the address book with a PC. See "Editing Address Book" (page 33) for details.

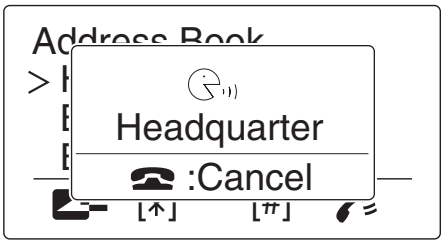
1 Press ▲ in the initial display.

The Address Book display appears.



2 Press ▲ or ▼ to select the destination unit, and then press .

The calling display appears.



The IP address of this unit and the registered name of the destination unit appear if the call is connected by pressing on the destination unit and conversation becomes available.
To adjust the speaker volume or disconnect the call, follow steps 4 and 5 in "Calling another unit by specifying an IP address" (page 16).

Calling another unit in online status

Follow the procedure below to call another unit which is online in the same subnet.

Note

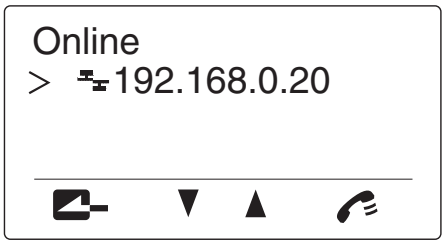
The "Online" menu does not show the PJP units that are turned off.

1 Press ▼ in the initial display.

The menu screen appears.

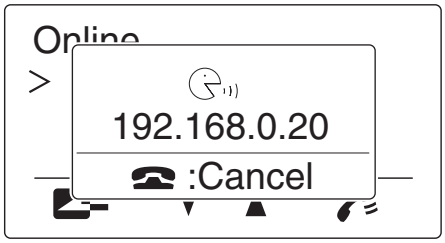
2 Press ▲ or ▼ to select "3. Online", and then press .

The "Online" menu appears.



3 Press ▲ or ▼ to select the destination unit, and then press .

The calling display appears.



The IP addresses of this unit and destination unit appear if the call is connected by pressing on the destination unit and conversation becomes available. To adjust the speaker volume or disconnect the call, follow steps 4 and 5 in "Calling another unit by specifying an IP address" (page 16).

If a unit available for communication is already registered in the address book, the name registered for the unit is displayed instead of the IP address.

Calling another unit using the call history

Follow the procedure below to call another unit by referring to the history of past outgoing or incoming calls.

Note

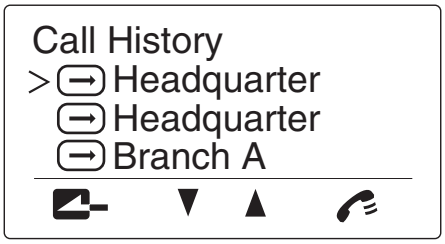
If the destination PJP unit obtains the IP address from the DHCP server, its IP address may be changed from the last call. If your call cannot reach the destination unit, check the latest IP address configured at the destination unit.

1 Press ▼ in the initial display.

The menu screen appears.

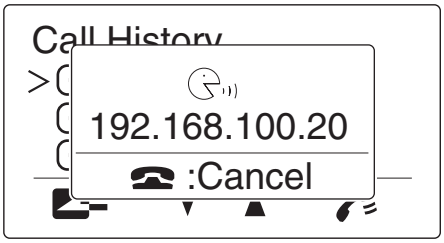
2 Press ▲ or ▼ to select "2. Call History", and then press .

The "Call History" menu appears.



3 Press ▲ or ▼ to select the destination unit, and then press .

The calling display appears.



The IP addresses of this unit and destination unit appear if the call is connected by pressing on the destination unit and conversation becomes available. To adjust the speaker volume or disconnect the call, follow steps 4 and 5 in "Calling another unit by specifying an IP address" (page 16).

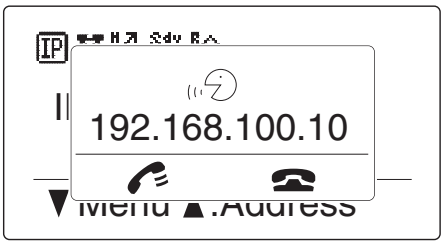
If a unit available for communication is already registered in the address book, the name registered for the unit is displayed instead of the IP address.

Answering a Call

Follow the procedure below to answer a call from another unit.

1 While having an incoming call, press .

When there is an incoming call, the back light of the display lights up and the ringing tone is generated. The display shows the IP address of the unit calling this unit.



If the call is made by the PJP unit which is already registered in the address book, the name registered for the unit is displayed instead of the IP address.

Note

Do not disconnect the LAN cable or power cable during a call. Doing so may cause malfunction.

2 To adjust the speaker volume, press VOL +/–.

3 To disconnect the call when the conference is complete, press .

■ To mute the microphone

When you want to talk about a topic that you do not want to be heard by the other unit(s) involved in the call, press MIC MUTE. The microphones of this unit are turned off while the MIC MUTE LED lights up. To cancel muting, press MIC MUTE again so that the MIC MUTE LED turns off.

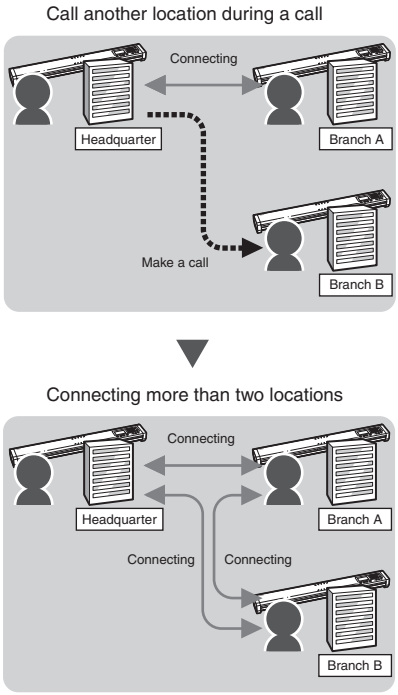
The microphone indicators (blue LEDs) do not light up while the microphones are muted.

■ To deny the call

While having an incoming call, press .

Talking with Multiple Locations

This unit is designed to enable a conference call between up to 4 locations (with the mesh connection). It is also possible to call a new location (branch office or department) during a call. To establish a call involving multiple locations, first connect a call with one of the locations and then call other locations one after another.



■ To call another location during a call

Carry out one of the following procedure during a call.

- Calling another unit by specifying an IP address (page 15)
- Calling another unit using the address book (page 17)
- Calling another unit in online status (page 17)
- Calling another unit using the call history (page 18)

The new location is added to the ongoing conference.

■ To answer a call during a call

Carry out the procedure in "Answering a Call" (page 20).

The new location is added to the ongoing conference.

Note

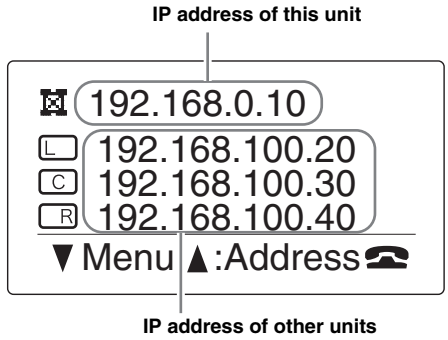
The mesh connection is available only when "G.711 Extension" or "G.711 μ-law" is selected as the codec. See "Configuring the codec" (page 31) and "Specifications" (page 53) for details about the codec.

Conference call between multiple locations is also possible by assigning each of the PJP units to be involved in connection as either server or client, and establishing a call between the servers that are connected to the clients. See "Hierarchical Connection of Multiple PJP Units (Cascade Connection)" (page 40) for details.

Display and speaker output during multiple connections

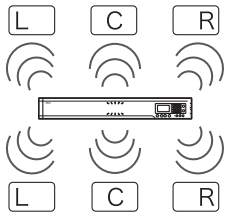
The information display and speaker output method are variable depending on the settings in “Connection Mode” (page 27) and “Speaker Mode” (page 29).

■ When “Speaker Mode” is set to “Divide”

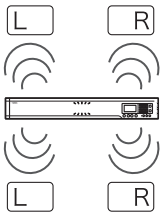


The audio from each location is output from a different position.
L , C and R displayed before the IP address of each location indicate the positions of the speakers where the audio from respective locations are output.

Positions in 4-location call

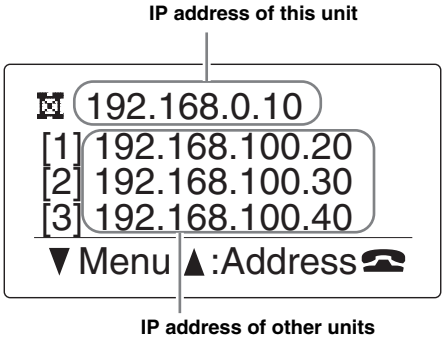


Positions in 3-location call



- Also you can change the speaker output positions according to locations, when the connection mode (page 27) is set to “Mesh” and the speaker mode is set to “Divide”. See “Changing the speaker output positions according to locations” (page 23).
- Each time you press */. , you can switch between IP address and setting icon shown at the top of the display. (When using an SIP server, the display switches between SIP address, setting icon, and IP address.)

■ When “Speaker Mode” is other than “Divide”



The audio from other locations is not divided according to locations, but are mixed and output as monaural audio. Simply the order of connections is displayed before the IP addresses of other units.

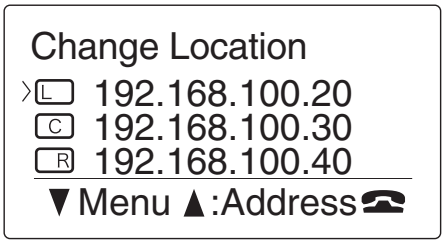
See page 36 for the display during a call through the SIP server, and see page 41 for the display in cascade connection.

Changing the speaker output positions according to locations

When the connection mode (page 27) is set to "Mesh" and the speaker mode (page 29) is set to "Divide", you can change the speaker output positions according to locations.

1 **Press ▼ during call.**
The menu screen appears.

2 **Press ▲ or ▼ to select "4. Change location", and then press .**
The "Change Location" menu appears.

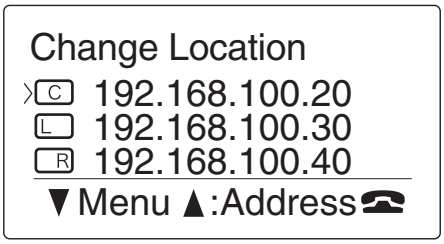


3 **Press ▲ or ▼ to select the IP address of the destination unit of which you want to change the speaker output position.**

4 **Press ◄ or ► to select the speaker output position.**

L, C and R displayed before the IP address of each location indicate the positions of the speakers where the audio from respective locations are output.

Example: when you change the speaker output position of the location (top of the list) from the left to the center.



5 **Press .**
The speaker output position of the unit selected in step 3 is changed to the position specified in step 4 so that the positions of other units are also changed.

Configuring Settings

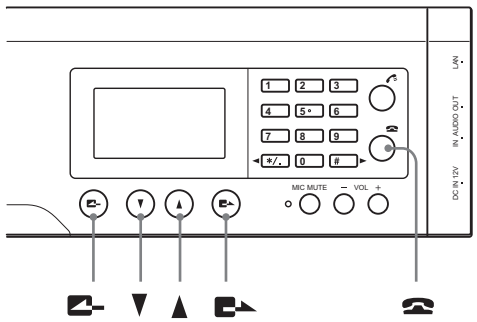
You can configure the settings of this unit using the operation keys on this unit or the web browser (web menu) on the PC connected to this unit.

Notes

- Some settings such as registering the names of this unit or the SIP server are available only with the web menu.
- See "Setting Menu List" (page 26) for details on the setting menu configuration and parameters of each menu item.

Configuring settings using the keys on this unit

Follow the procedure below to configure settings using the operation keys on this unit.

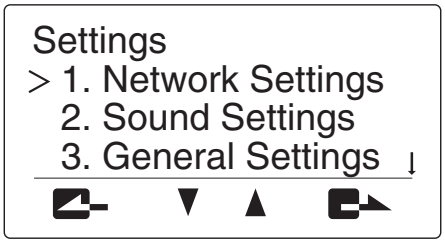


1 Press ▼ in the initial display.

The menu screen appears.

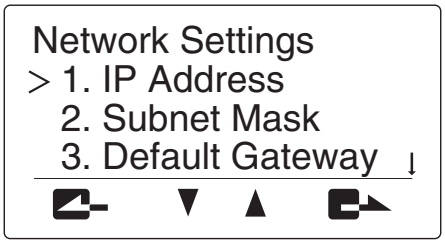
2 Press ▲ or ▼ to select "1. Settings", and then press ↵.

The "Settings" menu appears.



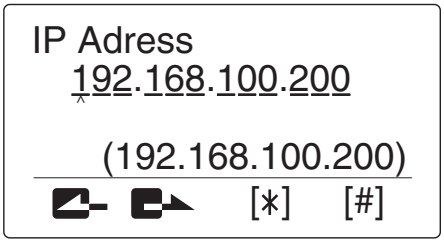
3 Press ▲ or ▼ to select the menu category, and then press ↵.

The menu items in the selected category appear. The following figure shows an example in which "1. Network Settings" is selected. For details on the setting menu configuration, see "Setting Menu List" (page 26).



4 Change the parameter.

The following figure shows an example in which "1. IP Address" is selected. For details on parameters of each menu item, see "Setting Menu List" (page 26).



5 To confirm the setting, press ↵.

The setting is saved in this unit.

To return to the previous menu without saving the setting

Press ←.

Configuring settings using the web menu

Follow the procedure below to configure settings using the web menu through a PC. This method is useful when you configure several menu items.

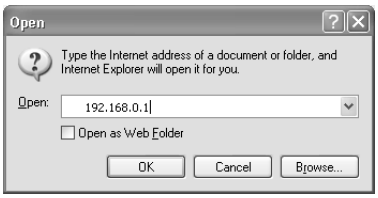
Note

Microsoft Windows XP or Windows 2000 is required as the web browser for viewing the web menu.

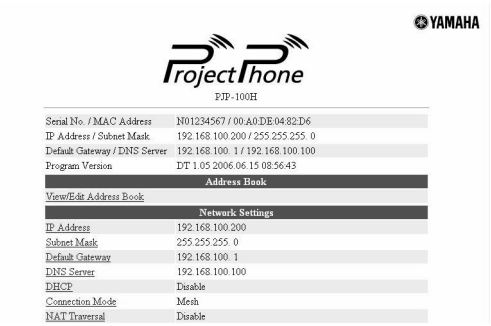
1 Check that this unit is turned on.

2 Launch the web browser on the PC, select the "File" menu, and then "Open".

3 Enter "http://(IP address of this unit)", and then click "OK".



The main window for the web menu appears.



If the main window for the web menu is not displayed, see "Q2: Web menu setting is not available" (page 47).

Setting Menu List

This section describes the setting menu items available with this unit. In the following description, indicates that the setting is possible using the keys on this unit and indicates that it is possible using the web menu through a PC.

Managing address book information

■ Managing the address book

You can check the address book in the display of this unit and call an address registered in the address book. In the web menu, it is also possible to add or edit the information registered in the address book (page 33).

Using the keys on this unit

In the initial display, press ▲ to select “Address Book”.

Using the web menu

In the web menu, select “View/Edit the Address Book”.

Configuring network settings

■ Registering the IP address of this unit

The IP address of this unit should be registered when the DHCP server is not used. The default setting is “192.168.100.200”.

Note

If you want to specify the IP address of this unit manually while this unit is connected to a LAN that has the DHCP server running, set “DHCP” to “Disable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “IP Address”.

Using the web menu

In the web menu, select “IP Address”.

■ Registering the subnet mask of this unit

You can register the subnet mask of this unit. The default setting is “255.255.255.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Subnet Mask”.

Using the web menu

In the web menu, select “Subnet Mask”.

■ Registering the default gateway referenced by this unit

You can register the default gateway to be referenced by this unit. The default setting is “0.0.0.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Default Gateway”.

Using the web menu

In the web menu, select “Subnet Mask”.

■ Registering the DNS server referenced by this unit

You can register the DNS server to be referenced by this unit. The default setting is “0.0.0.0”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “DNS Server”.

Using the web menu

In the web menu, select “DNS Server”.

■ Configuring the DHCP server settings

Select “Enable” to assign the network information of this unit using the DHCP server or “Disable” to assign the network information manually. The default setting is “Enable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “DHCP”.

Using the web menu

In the web menu, select “DHCP”.

■ Configuring the connection mode

You can select the mode used in connections involving multiple locations. The default setting is “Mesh”.

- **Mesh**: This unit establishes a separate session with each of the locations involved in the conference call.

  This mode is indicated by on the display.
- **Cascade Server**: This unit functions as the server in the cascade connection inside the location it is installed. With respect to other locations, it functions the same as the “Mesh” mode. This mode is indicated by on the display.
- **Cascade Client**: This unit functions as a client in the cascade connection inside the location it is installed.

  This mode is indicated by on the display.

Note

The mesh connection is available only when “G.711 Extension” or “G.711 μ-law” is selected as the codec. See “Configuring the codec” (page 31) and “Specifications” (page 53) for details about the codec.

For details on the cascade connection, see “Hierarchical Connection of Multiple PJP Units (Cascade Connection)” (page 40).

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “Connection Mode”.

Using the web menu

In the web menu, select “Connection Mode”.

■ Configuring the NAT traversal setting

When this unit exists in a network that uses the NAT, select “Enable” to connect this unit to a PJP unit on an external network. The default setting is “Disable.”

Notes

- Even when “Enable” is selected, connection to a PJP unit on an external network may be impossible depending on the network settings.
- When the external network has a SIP server, you cannot specify the SIP address to make a communication between the PJP units in the same segment.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “NAT Traversal”.

Using the web menu

In the web menu, select “NAT Traversal”.

■ Configuring the SIP server setting

Select “Enable” to use the SIP server for the call. The default setting is “Disable.” To use the SIP server, you need to register the SIP server name and password using the web menu. See page 35 for details.

Notes

- Even if you select “Enable”, the SIP server is not available for a call unless the SIP server name and password are registered in the web menu.
- To connect a call using a SIP server, it is required to register the SIP address of this unit. See page 35 for details.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Network Settings” → “SIP Server”.

Using the web menu

In the web menu, select “SIP Server”.

■ Registering the unit name

You can register the name of this unit by entering a desired character string.

Using the web menu

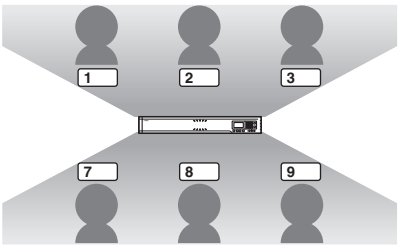
In the web menu, select “Unit ID”.

Configuring sound settings

■ Selecting the audio pickup area (microphone mode)

You can select the audio pickup area of the microphone during call. The default setting is “Zone”.

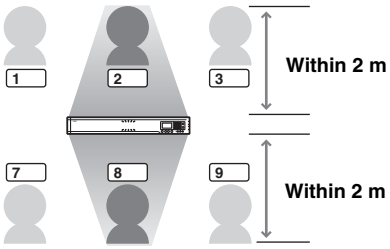
- **Zone**: Pick up the audio in large area not only tracking the audio of the talker. It is suitable for the relatively quiet environment. To specify audio pickup area, use the numeric keys in “Microphone Mode” menu. According to the pressed keys, the audio in the area of the following figure is picked up or not.



Microphone indicators (blue LED) of which direction audio can be picked up from all light up. This mode indicated by on the display.

- Press 5 to pick up audio from all directions.
- You can select multiple areas at the same time. The selectable area’s sets are [1+2+7+8], [2+3+8+9], or all areas.

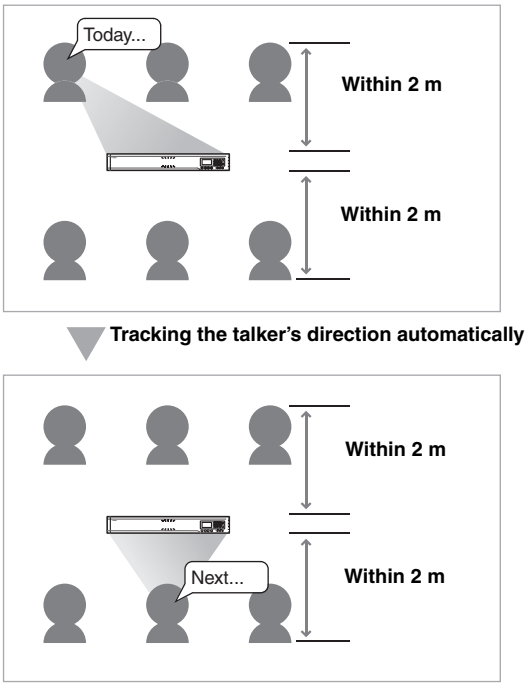
- **Spot**: Fix the audio pickup area to the two positions facing the unit with the narrow directivity of the speaker. It is suitable for the cases that the taker is fixed one or two persons, or there is equipment produces noise such as the projector. To specify audio pickup area, use the numeric keys in “Microphone Mode” menu. According to the pressed keys, audio in the areas of the following figure is picked up or not.



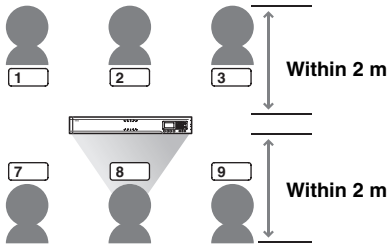
Microphone indicators (blue LED) of which direction audio can be picked up from all light up. This mode indicated by on the display.

You can select multiple areas at the same time. The selectable area’s sets are [1+7], [2+8], [3+9], or all areas.

- **Track**: The microphone system automatically tracks and focuses the audio of the talker not fixing the audio pickup area (only the one talker’s audio can be picked up at the same time). The audio can be picked up with narrow directivity so that the noises other than the taker can be lessened. It is suitable to pick up the audio clearly in the environment where there are noises.



To specify the area to which this feature is available, use the numeric keys in “Microphone Mode” menu. According to the pressed keys, audio in the area of the following figure is picked up or not.



Microphone indicators (blue LED) of which direction audio can be picked up from light up. This mode indicated by on the display.

- Press 5 to pick up audio from all directions.
- You can select multiple areas at the same time.
- You can select areas to where the audio pickup feature is not applied.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Microphone Mode”.

You can display “Microphone Mode” menu by pressing continuously in the initial display or calling display.

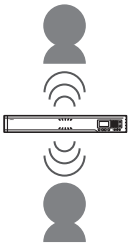
Using the web menu

In the web menu, select “Microphone Mode”.

■ Configuring the speaker mode

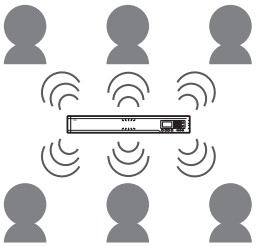
You can select the mode of audio output from the speakers during call. The default setting is “Divide”.

- **Divide**: When this unit communicates with multiple locations, the audio from other units is divided according to their locations. This mode is indicated by on the display.
  The position from which the audio from each location is assigned automatically according to the number of connected locations, that is, to the left/center/right positions in a conference call with 3 locations, to the left/center positions in a conference call with 2 locations and only to the center position in a call with a single location.
- **Monaural**: Even during call with more than one location, the audio from other units is not divided according to their locations. This mode is indicated by on the display.
- **Small Area**: The area from which the audio from other units is limited as shown below (monaural output).
  This mode is indicated by on the display.



- **Medium Area**: The area from which the audio from other units is limited as shown below (monaural output). This mode is indicated by on the display.

- **Large Area**: The area from which the audio from other units is limited as shown below (monaural output).
  This mode is indicated by on the display.



Notes

- When “Connection Mode” (page 27) is set to “Cascade Server” or “Cascade Client”, the audio is always output in the monaural speaker mode even when “Divide” is selected.
- When “Speaker Mode” is set to “Divide”, the speaker output positions depend on an connected order. To change the speaker output positions according to locations, see “Changing the speaker output positions according to locations” (page 23).

Using the keys on this unit
In the initial display, select “Menu” → “Settings” →“Sound Settings” → “Speaker Mode”.

You can display “Speaker Mode” menu by pressing continuously in the initial display or calling display.

Using the web menu
In the web menu, select “Speaker Mode”.

■ Configuring the room size
You can configure this setting depending on the room size and operating environment. However, you do not need to change it from “Large” (default setting) normally.

- **Large** (default): Position for using the unit in an ordinary conference room, open space or office. The communication quality is most stable in this position. This setting is indicated by on the display.
- **Medium**: Select this position when echo is heard on the other party of communication with the default “Large” position. This position is selected when the unit is used in a room with large reverberations. This setting is indicated by on the display.
- **Small**: Select this position when echo is still heard on the other party of communication with the “Medium” position. This setting is indicated by on the display.

Notes

- Room Size is the function for reducing echo on the other party of communication. Room Size cannot reduce the echo that is heard from the unit installed on the local location.
- Positions “Medium” and “Small” can improve the echo processing capability but lowers the communication quality. These positions should be selected only when echo is heard on the other party.

Using the keys on this unit
In the initial display or the display during communication, select “Menu” → “Settings” → “Sound Settings” → “Room Size”.

Using the web menu
In the web menu, select “Room Size”.

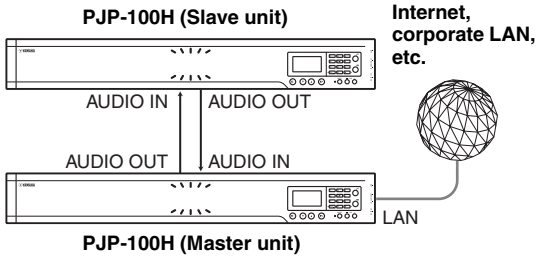
■ Configuring the external input/output setting
You need to configure this setting when you connect an external audio equipment to this unit. The default setting is “None”.

- **None**: Usually select this setting.
- **Audio**: Select this setting when connecting external audio equipment to this unit.

Using the keys on this unit
In the initial display, select “Menu” → “Settings” →“Sound Settings” → “External I/O”.

Using the web menu
In the web menu, select “External Input/Output”.

Configuring the audio connection function
When the PJP-100H is connected with a PC through Ethernet, another PJP-100H unit can be connected to the existing PJP-100H using commercially available audio cables (stereo mini-jack cables). This makes the system applicable to conferences in a larger space or with a larger number of participants.



1 Connect the master PJP-100H to the network.

2 Using a commercially available stereo mini-pin cable, connect the AUDIO IN jack of the second PJP-100H (slave unit) to the AUDIO OUT jack of the PJP-100H connected to the network (master unit).

3 Using another commercially available stereo mini pin cable, connect the AUDIO OUT jack of the second PJP-100H (slave unit) to the AUDIO IN jack of the first PJP-100H (master unit).

4 Change the “External I/O” settings of both the master and slave units as follows.

- Master PJP-100H: Set to “Connection:(mstr)”.
- Slave PJP-100H: Set to “Connection:(slv)”.

■ Configuring the codec

You can select a codec from the following options.

- **G.711 Extension**
- **G.711 μ-law**
- **G.726-40**
- **G.726-32**
- **G.726-24**

See “Specifications” (page 53) for details about the frequency response and the transmission bandwidth for each codec.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “CODEC”.

Using the web menu

In the web menu, select “CODEC”.

■ Configuring the codec line adaptation

This unit selects the optimum codec for the current network situations automatically when this parameter is set to “Enable” (default setting). Select “Disable” to fix the codec to the one you select using the “CODEC” parameter.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “CODEC Line Adapt”.

Using the web menu

In the web menu, select “CODEC Line Adapt”.

■ Configuring the silence suppression setting

You can suppress packet output when no sound is input at the microphone of this unit.
Select “Disable” to deactivate this function. The default setting is “Enable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” → “Sound Settings” → “Silence Suppress”.

Using the web menu

In the web menu, select “Silence Suppression”.

Configuring general settings

■ Adjusting the ring tone volume

You can adjust the ring tone volume by press VOL +/–.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” →“General Settings” → “Ring Volume”.

■ Configuring the backlight off setting

Select the time until this unit turns off the backlight automatically when it is not engaged in a call, from “Disable” (not to switch to standby mode), “3 minutes”, “5 minutes” ,“10 minutes” and “30 minutes”. The default setting is “Disable”.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” →“General Settings” → “Auto Standby”.

Using the web menu

In the web menu, select “Auto Standby”.

■ Adjusting the LCD contrast

You can adjust the contrast of the display by press VOL +/–.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” →“General Settings” → “LCD Contrast”.

■ Selecting the SNTP server for synchronization

If you want to adjust the time automatically by synchronizing this unit with a SNTP server, enter the name or IP address of the desired SNTP server. See “Setting Date and Time” (page 37) for details.

Using the web menu

In the web menu, select “SNTP Server”.

■ Selecting the SNTP synchronization interval

If you want to adjust the time automatically by synchronizing this unit with a SNTP server, specify the synchronization interval in minutes. See “Setting Date and Time” (page 37) for details.

Using the web menu

In the web menu, select “SNTP Synchronization Interval”.

Storing the call history

■ Downloading the call history of this unit

The call history of this unit can be downloaded as a TSV file. See “Managing the Call History” (page 38) for details.

Using the web menu

In the web menu, select “Download Call History”.

Setting the password

■ Setting password for the web menu

You can protect the web menu with a password so that its settings would not be altered by a third party. The password can be set by entering the current password and the new password.

When setting the password for the first time, leave the “Current Password” field blank.

Using the web menu

In the web menu, select “Set Password”.

Note

Be sure not to forget the password. If you forgot the password, you cannot access the web menu until you restore the factory settings using the keys on this unit. Restoring the factory settings clears all of the settings you made.

Restoring the factory settings

■ Restoring the factory settings of this unit

You can restore the factory settings of this unit. See “Resetting the Unit” (page 50) for details.

Note

Restoring the factory settings clears all of the settings you made as well as the address book and call history data.

Using the keys on this unit

In the initial display, select “Menu” → “Settings” →“Restore Settings”.

Using the web menu

In the web menu, select “Restore Factory Settings”.

Editing Address Book

You can register up to 16 PJP units in the address book of this unit. The address book can be used to select and call a unit (page 17). To register new PJP units or edit the registered information, use the web menu.

Registering a new address

1 In the web menu, click "View/Edit Address Book".

The "Address Book" window appears.

Setting Home > Address Book
Address Book
The number of registered address: 0
Register New Address
No Address is registered

2 Click "Register Address".

The "Register New Address" window appears.

3 Enter the name of the unit to be registered in the "NAME" field using up to 31 alphanumeric characters.

4 Select the address designation method.

- **SIP URI**: Select this to call the unit by means of the SIP server.
- **IP**: Select this to call the unit by designating its IP address.

5 Enter the address of the unit to be registered.

Enter the address of the type selected in step 4 (SIP address or IP address).

Note

If the destination PJP unit obtains the IP address from the DHCP server, its IP address may be changed from the last call. If your call cannot reach the destination unit registered in the address book, check the latest IP address configured at the destination unit.

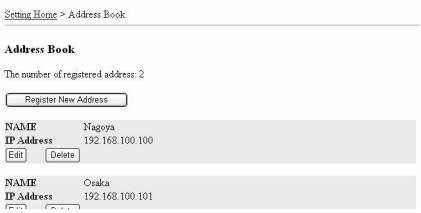
6 Click "Register".

The new address is registered in the address book, and the "Address Book" window reappears.

Editing an existing address

1 In the web menu, click “View/Edit Address Book”.

The “Address Book” window appears.



2 From the address list, click “Edit” for the address you want to edit.

The “Edit Address” window appears.

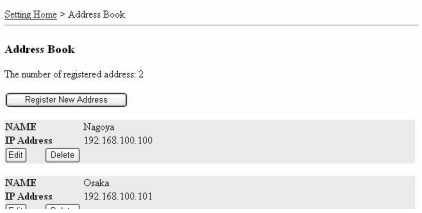
3 Edit the information of the selected address, and then click “Register”.

The updated address is registered in the address book, and the “Address Book” window reappears.

Deleting an address

1 In the web menu, click “View/Edit Address Book”.

The “Address Book” window appears.



2 From the address list, click “Delete” for the address you want to delete.

The selected address is deleted from the address book, and the “Address Book” window reappears.

Using the SIP Server

Registering the SIP server information

When this unit is used in an environment with a SIP server, the address of the SIP server to be referenced by this unit and the SIP address of this unit should be registered. If password authentication is required for accessing the desired SIP server, it is also necessary to enter the password. Consult your system administrator for details.

Note

The settings described in this section are not required if this unit is used in an environment without SIP server.

1 In the web menu, click "SIP Server".

The "SIP Server" window appears.

2 In the "SIP Server" field, click "Enable".

3 In the "SIP Server Name" field, enter the name or IP address of the SIP server.

4 If password authentication is required for accessing the desired SIP server, enter the authentication password for the SIP server in the "SIP URI Password" field.

5 In the "SIP URI" field, enter the SIP address to be set to this unit.

Enter the SIP address in the format "sip:(sip address)".

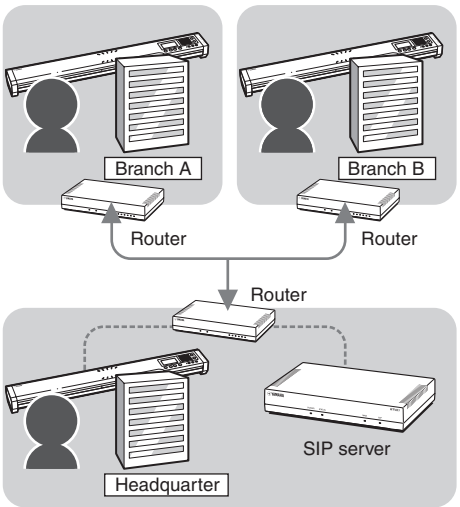
Example: sip:sipuser@yamaha.co.jp

6 Click "Submit".

The setting is registered and the top window of the web menu reappears.

Notes on SIP server operation

- To connect a call using the SIP server, the SIP address of this unit should be registered in the SIP server.
- It is not possible to establish a connection between a PJP unit that uses the SIP address and a PJP unit that uses the IP address.
- If the SIP server is installed outside the LAN, it is required to use the NAT transversal function (page 27) of this unit.



In this case, the following conditions are required.

- The router to which the PJP is connected supports the UPnP function.
- A global IP address is assigned to the WAN on the router side.

Note

When a SIP call is connected using the NAT transversal function, it is not possible to install multiple PJP units in a single segment and connect a call between them.

■ Calling another unit by dialing the user ID

You can call another unit by dialing the user ID if it consists of only the numbers.

Example: SIP address of this unit is 200@server1.net, and another unit is 201@server1.net

You can call another unit only by dialing “201”.

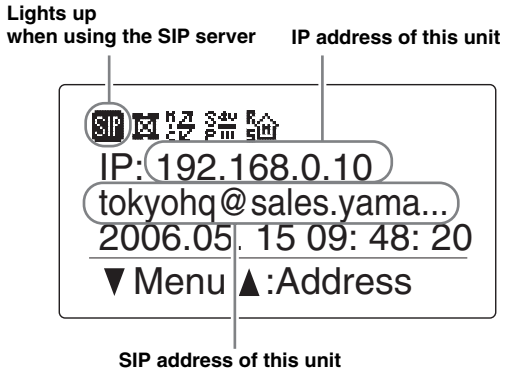
Notes

- You can call only the unit which belongs to the same domain as this unit.
- If you want to call another unit which belongs to another domain, register its SIP address in the address book beforehand and call by using the address book.

Display in SIP server operation

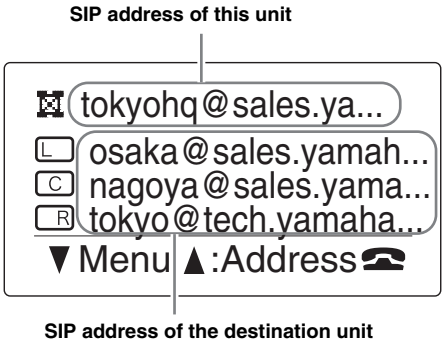
Initial display

The SIP address of this unit is displayed in addition to the information usually displayed (page 7).



Display during call

The SIP addresses of this unit and other units are displayed during the call.



Other displayed information and speaker modes are identical to those in calls using the IP address (pages 15 and 22).

Setting Date and Time

The SNTP server (time distribution server) enables to adjust the date and time information in this unit automatically at constant intervals.

Notes

- The date and time of this unit cannot be adjusted without a SNTP server. In this case, note that the downloaded call history (page 38) does not show correct date and time data.
- If the time data cannot be obtained from the SNTP server at the moment this unit is turned on or the designated SNTP server does not exist at the moment, the time is not displayed on this unit.
- The synchronization with the SNTP server may not be available depending on the security settings of the LAN accommodating this unit. To use an external SNTP server in this case, it is required to change the settings of the router, etc. Refer to the instruction manuals for your router for details.

1 In the web menu, click "SNTP Server".

The "SNTP Server" window appears.

2 In the "SNTP Server ID" field, enter the name or IP address of the SNTP server to be used.

3 In the "SNTP Synchronization Interval" field, select the desired interval for synchronization with the SNTP server.

4 Click "Submit".

The setting is registered and the top of the web menu reappears.

Managing the Call History

This unit stores the call history of up to 15 events. You can save the call history as a tab-delimited text (TSV format) file by downloading it to the PC.

1 In the web menu, click “Download Call History”.

The “Download File” window appears.

2 Click “Save As”.

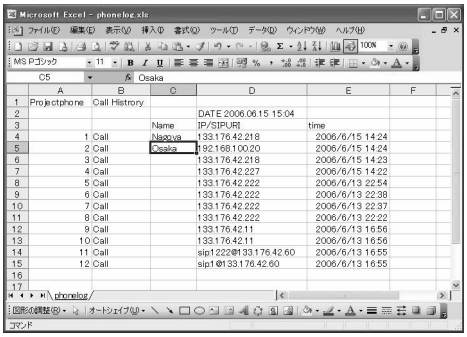
The “Save As” window appears.

3 Specify the file name and the location to save it, and then click “Save”.

The call history is saved in the PC.

■ Viewing the call history file

You can view the call history file (TSV file) with spreadsheet software such as Microsoft Excel for utilizing the data in various ways.



Contents of call history file

The call history file is a text file delimiting information with tabs. The file extension is “.xls” so that it can be opened with Microsoft Excel without any change.

- **Call type**: The call type (Incoming/Outgoing/Incoming but not answered/Multi-location) is shown. The call originated or terminated automatically in the mesh connection mode (page 27) is classified as a “Multi-location” call.
- **Other party**: When the name of the calling or called unit is registered in the address book, its name is shown here.
- **IP/SIP address**: The IP address or the SIP address of the other party of call is shown.
- **Time**: The time at which the call was started is shown.

Note

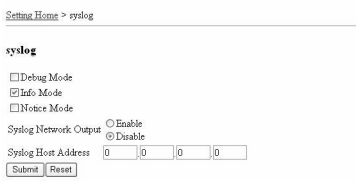
The SNTP server setting is required to obtain correct date and time information (page 37).

Confirming the System Log Message of This Unit (syslog)

You can send information or the event which occurs in the system of this unit to another unit as the message (this is called "Syslog"). "Syslog" contains information of such as start/shut down of this unit, login, the activity in normal states, the states of an error. You can specify the level of the message if necessary.

1 In the web menu, click "Syslog Setting".

The "Syslog" window appears.



2 Select the desired mode(s) which specifies the kind of the sending message and click.

You can check marks of multiple modes to send all checked messages.

- **Debug Mode:** Send the debug log to confirm the inner activity when an error occurs.
- **Info Mode (default setting):** Send the operation log such as the event or states of the activity of this unit.
- **Notice Mode:** Send the details of the operation log when this unit is in the normal states.

3 In the "Syslog Network Output" field, click "Enable".

4 In the "Syslog Host Address" field, enter the host IP address of the destination unit.

5 Click "Submit".

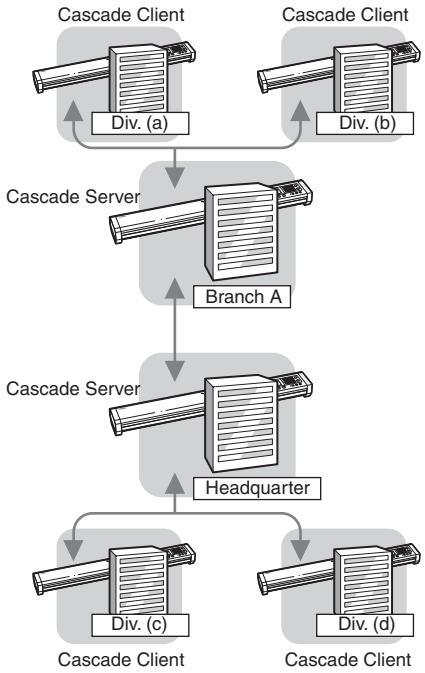
The syslog message specified in step 2 is sent to the host address specified in step 4.

Hierarchical Connection of Multiple PJP Units (Cascade Connection)

What is cascade connection ?

The cascade connection classifies the PJP units to be involved in a call into the servers and clients, connects each client to a server and establishes the call by interconnecting the servers. While the maximum number of locations that can be connected in normal connection mode (mesh mode) is 4, a larger number of locations can be connected by means of the cascade connection.

Example: Connecting headquarter and branch A with a 2-location call and additionally connecting two divisions in two different locations to each of headquarter and branch A.

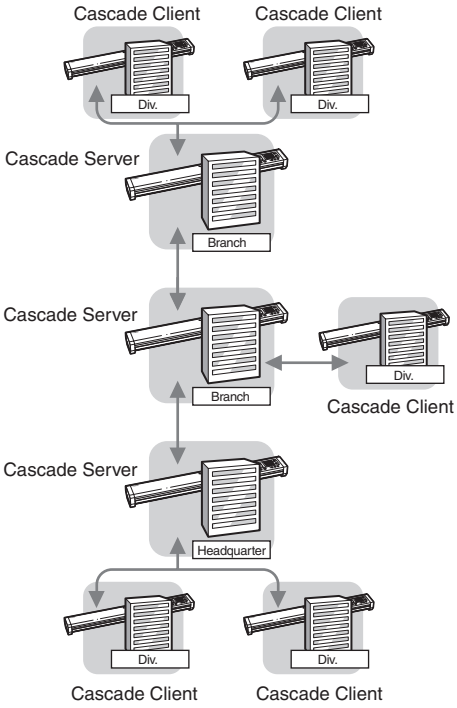


Notes

- To use the cascade connection, all of the PJP units involved in the call should be set to one of the cascade connection modes. A unit set to the normal connection mode (mesh mode) cannot be connected with a unit set to a cascade connection mode.
- During a cascade connection, the audio is always reproduced in the monaural mode even when “Speaker Mode” (page 29) is set to “Divide”.

■ The maximum number of locations by the cascade connection

Up to 8 locations can be connected by means of the cascade connection. To establish the connection of 8 locations, you need to connect the servers and clients as shown in the following figure.



Configuring the cascade settings

First configure the setting of cascade server unit, and then configure the settings of the cascade client units.

■ Step 1. Configure the setting of the cascade server.

1 Press ▼ in the initial display.
The menu screen appears.

2 Press ▲ or ▼ to select "1. Settings", and then press ↵.
The "Settings" menu appears.

3 Press ▲ or ▼ to select "1. Network Settings", and then press ↵.
The "Network Settings" menu appears.

4 Press ▲ or ▼ to select "6. Connection Mode", and then press ↵.
The "Connection Mode" menu appears.

5 Press ▲ or ▼ to select "1. Cascade Server", and then press ↵.
The settings are saved.

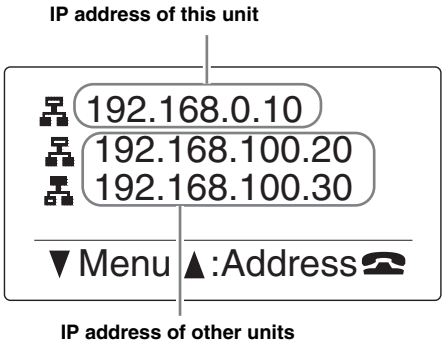
Return to the initial display and check that is displayed at the top of the display.

■ Step 2. Configure the settings of the cascade clients

Follow the procedure in "Step 1. Configure the setting of the cascade server." above and select "2. Cascade Client" in step 5.
After completing the setting, return to the initial display and check that is displayed at the top of the display.

Display in cascade connection

The IP addresses of this unit and other units connected to this unit are displayed during call.



The mark displayed before each IP address indicates the cascade connection mode of each unit.

- : The unit is set to "Cascade Server".
- : The unit is set to "Cascade Client".

Updating the Firmware

You can download the firmware (program to control the functions of this unit) to use the latest features. There are two ways to install the firmware: the one is that you connect to the internet using this unit and automatically install the latest firmware to this unit. The other is that you download the firmware to your PC and install it to this unit manually (page 44).

Software Licensing Agreement

To use the revision upgrading function, you should accept the following software licensing agreement.

1 Permission of use

The present Software Licensing Agreement is intended to allow Yamaha Corporation (hereinafter referred to as "Yamaha") to permit you to use the firmware (hereinafter "this program") for Yamaha IP audio conference system (hereinafter "this product"). You can download this program after having accepted the terms and conditions of the present Software Licensing Agreement.
The present Software Licensing Agreement is applicable to the downloaded copy of this program as well as to its duplicates produced in accordance with the present Software Licensing Agreement.

2 Inhibition of redistribution

You are permitted to download this program only when you are intended to upgrade the functions of this product. It is inhibited to upload or post this program in a website accessible by an unspecified number of the general public unless there is a permission from Yamaha.

3 Production of duplicates

You may not produce duplicates of this program unless when it is necessary for backing up purpose or for upgrading of more than one of this product.

4 Inhibition of decompiling, reverse engineering or disassembling

You may not decompile, reverse-engineer, disassemble, alter, permit the use of, distribute or create any derivative works of this program

5 Limitation of liabilities

Under any situation including a negligence of its own, Yamaha will not assume any liabilities on the damage to the customers caused by the present Software Licensing Agreement.

6 Export control

You shall comply with all applicable export laws and regulations of any relevant countries including but not limited to Japan and your country. You shall not, directly or indirectly, export or re-export this program except in compliance with such laws and regulations.

7 Compliance to laws and regulations

This Software Licensing Agreement should be compliant to the laws and regulations of Japan and your country, and should be interpreted in accordance with the laws of Japan.

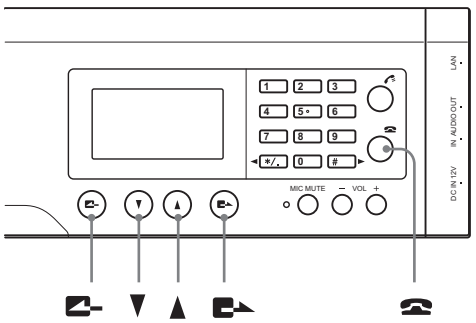
Updating the firmware automatically

Follow the procedure below to install the latest firmware automatically.

Notes

- Automatic firmware update can be performed only if this unit can be connected to the internet. If not, follow the procedure in "Updating the firmware manually" (page 44).
- Once the firmware update is started, do not perform any other operation until update is completed and this unit is restarted. If the update operation is interrupted, this unit may become unusable, in which case this unit needs to be returned to the factory to repair.
- When the firmware update is completed, this unit is restarted automatically. All of the calls being connected are disconnected at this time.
- Do not unplug the LAN cable during the firmware update. Otherwise, this unit could become unusable and may need to be returned to the factory to repair.

You can specify any URL to download the firmware (page 44).

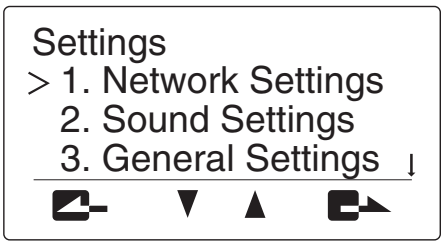


1 Press ▼ in the initial display.

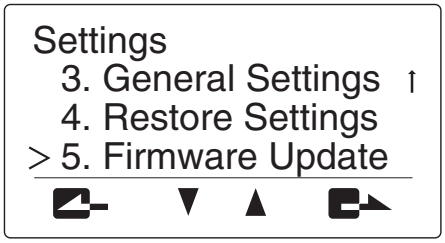
The menu display appears.

2 Press ▲ or ▼ to select "1. Settings", and then press ↵.

The "Settings" menu appears.

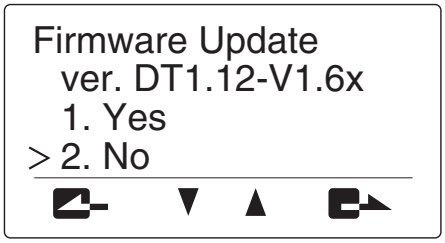


3 Press ↵, and then press ▲ or ▼ to select "5. Firmware Update".



4 Press ↵.

The "Firmware Update" menu appears.



5 Press ▲ or ▼ to select "1. Yes", and then press ↵.

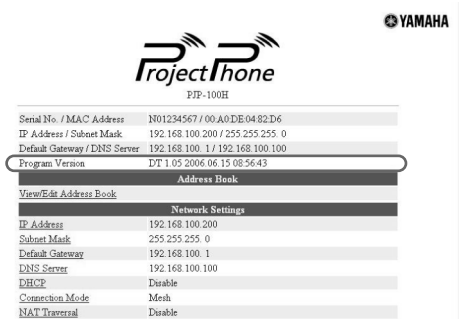
This unit is connected to the internet and downloads the latest firmware. When downloading is completed, the firmware update is automatically started.

The firmware update process takes a few minutes to complete.

MIC MUTE (red LED) on the top panel of this unit flashes during the firmware update process. Do not turn this unit off while MIC MUTE (red LED) flashes.

■ When the firmware update is complete

This unit restarts automatically.
Check the version number in the "Program Version" field on the top of the web menu to confirm that the new firmware is installed properly.

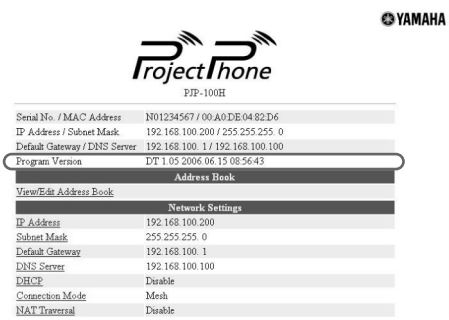


■ Specifying the URL to connect for downloading the firmware

It is convenient to control the firmware version used for PJP in your office.

1 Click “Firmware Update” in the web menu.

The “Firmware Update” window appears.



2 Select “Other”, and then enter the URL to be connected when the firmware update is carried out.

3 Click “Submit”.

The URL to be connected when this unit carries out the firmware update automatically is changed.

To use the latest firmware at all times

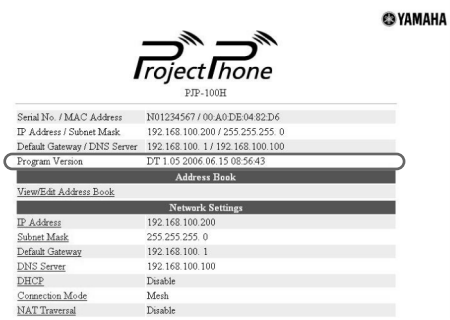
In step 2, select “Yamaha website”.

Updating the firmware manually

When this unit can not be connected to the internet, you need to download the latest firmware to your PC, and then install it to this unit using TFTP.

■ Step 1: Confirming the current version number

Check the “Program Version” field on the top of the web menu.



■ Step 2: Downloading the latest firmware to your PC

Access the following PJP support page using your PC and download the latest firmware from it.

PJP website:

http://www.yamaha.co.jp/english/product/projectphone/

■ Step 3: Installing the firmware to this unit

Follow the procedure below to install the firmware to this unit.

Notes

- Once the firmware update is started, do not perform any other operation until update is completed and this unit is restarted. If the update operation is interrupted, this unit may become unusable, in which case this unit needs to be returned to the factory to repair.
- When the firmware update is completed, this unit is restarted automatically. All of the calls being connected are disconnected at this time.
- Do not unplug the LAN cable during the firmware update. Otherwise, this unit could become unusable and may need to be returned to the factory to repair.

1 Show the initial display of this unit.

2 Start "Command Prompt" in the Windows PC which can access the web menu of this unit.

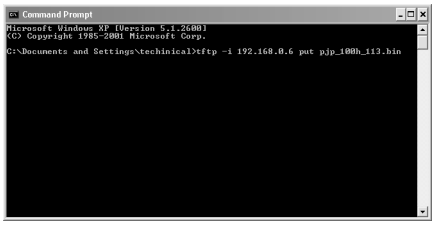
When using Windows XP, select the "Start" menu → "All Program" → "Accessories" → "Command Prompt".

3 Enter and run the following command.

tftp -i [IP address of this unit] put [file name of the firmware]

Example:

tftp -i 192.168.0.6 put pjp_100h_113.bin


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\techinical>tftp -i 192.168.0.6 put pjp_100h_113.bin

The confirmation of the firmware version is required.

4 Press .

The confirmation whether the firmware update is carried out is required.

5 Press .

When the installation is complete, the firmware update process starts automatically.

The firmware update process takes a few minutes to complete.

MIC MUTE (red LED) on the top panel of this unit flashes during the firmware update process. Do not turn this unit off while MIC MUTE (red LED) flashes.

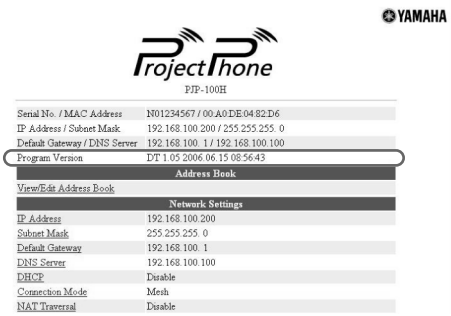
To cancel the firmware update

In step 5, press .

■ When the firmware update is complete

This unit restarts automatically.

Check the version number in the "Program Version" field on the top of the web menu to confirm that the new firmware is installed properly.



Troubleshooting

Refer to the following tables when this unit does not function properly. If the problem you are experiencing is not listed or if the instruction does not help, contact the nearest authorized YAMAHA dealer or service center.

First, check if the microphone indicators light up. If the indicator is turned off, see "Q1: LED indicators do not light up" below. Otherwise, consult one of the following description pages according to the problem.

– "Q2: Web menu setting is not available" (page 47)
– "Q3: Call is impossible" (page 48)
– "Q4: Other problems" (page 49)

Q1: LED indicators do not light up

Problem	Cause	Remedy
The microphone indicators do not light up.	This unit is not turned on.	Check that the AC adapter and power cable are connected properly.
	The power cable is not connected to the AC outlet.	Check that the power cable is connected to the AC outlet properly.
	The main or branch circuit breaker is shut off.	If the circuit breaker is tripped to "OFF", set it to "ON".
		If the circuit breaker is "ON", set it to "OFF" then "ON" again.
	There is a power failure.	Wait until the power supply is restored.
	Power is not supplied to the AC outlet. (Carry out the test by connecting another electrical appliance to the AC outlet.)	If another appliance can neither be turned on, have the power outlet or power wiring serviced.
		If another appliance can be turned on, have this unit serviced.
	The microphones are muted (the MIC MUTE LED lights up).	Press MIC MUTE so that the MIC MUTE LED is turned off.

Q2: Web menu setting is not available

Problem	Cause	Remedy
The web menu cannot be opened.	The network setting of the PC is inappropriate (when other PCs and network printers in the LAN are also unusable).	Set the LAN board and LAN card again and reboot the PC.
		Reset the IP address of the PC.
	An inappropriate LAN cable is used for the connection between this unit and the network.	Use an optimum LAN cable (straight or cross cable).
		Use a LAN cable of Category 5 or higher.
	This unit is malfunctioning.	Reset this unit to restore the factory settings (page 32), and then perform desired settings.
	An inappropriate URL is specified.	When using this unit for the first time or after restoring the factory settings, access "http:// (IP address shown in the initial display of this unit)".
	The web browser of the PC is set to use a proxy server.	The web menu cannot be opened when the proxy setting is inappropriate.
		When using Internet Explorer 6 for Windows, open the "Tool" menu, select "Internet Options" → "Connection" tab → "Set LAN", and then uncheck "Use proxy server".
	A network fault occurred or the communication is blocked by a firewall.	Consult your network administrator to have the network status checked.
The password for the web menu is entered but it cannot be opened.	The password is incorrect (when a password error is displayed).	The password is case-sensitive. Be sure to enter alphanumeric characters correctly by distinguishing the uppercase and lowercase letters.
The settings are returned to the previous settings.	You did not click "Submit" or "Register" to confirm the settings.	After configuring the web menu settings, be sure to click "Submit" or "Register" to confirm the changed settings. If the window is closed without confirmation, the settings you made are not saved.

Q3: Call is impossible

Problem	Cause	Remedy
A call cannot be originated.	An inappropriate IP address is entered.	Check the IP address of the other unit and enter the correct IP address.
	The IP address of the other unit has been changed.	Check the IP address of the other unit and enter the correct IP address.
	The communication is blocked by a firewall.	Call by designating the IP address cannot cross a firewall. If you want to change the calling method to the SIP call, consult your system administrator.
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.
	The connection mode settings of this unit and the other unit are different.	A unit in the mesh connection mode cannot communicate with a unit in a cascade connection mode. Set the two units to the same connection mode (page 27).
	The IP/SIP settings of this unit and the other unit are different.	A unit using the SIP address cannot communicate with a unit using the IP address. Enable or disable the SIP server operation as required so that both units use the same type of address (page 27).
	The SIP address in the address book is incorrect.	Register the correct SIP address (page 35).
	The SIP server is not running.	Consult your system administrator.
	The SIP address of the other unit is not registered in the SIP server.	Consult your system administrator.
A call cannot be received.	An incorrect IP address is entered on the other unit.	Enter the correct IP address on the other unit.
	The communication is blocked by a firewall.	Call by designating the IP address cannot cross a firewall. If you want to change the calling method to the SIP call, consult your system administrator.
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.

Problem	Cause	Remedy
A call cannot be received.	The connection mode settings of this unit and the other unit are different.	A unit in the mesh connection mode cannot communicate with a unit in a cascade connection mode. Set the two units to the same connection mode (page 27).
	The IP/SIP settings of this unit and the other unit are different.	A unit using the SIP address cannot communicate with a unit using the IP address. Enable or disable the SIP server operation as required so that both units use the same type of address (page 27).
	The SIP server is not running.	Consult your system administrator.
The audio from the other unit cannot be heard.	The microphones are muted on the other unit.	Cancel mute on the other unit.
The audio is interrupted.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (page 8).
	A network fault occurred.	Wait until the fault is released.
		Consult your system administrator.
	The LAN cable is not connected properly.	Check that the LAN cable is connected firmly.

Q4: Other problems

Problem	Cause	Remedy
The audio output is delayed.	The required bandwidth is not reserved.	Check that the bandwidth required for communication is reserved (page 8).
The unit generates feedback noises.	The unit is located against a wall.	Locate the unit at a certain distance from a wall.
	An object is placed near this unit.	Avoid placing an object in front of the microphones.
	This unit is used in a room with high reverberation.	Place objects with high sound absorbance in the room by avoiding the positions in front of the microphones.
		Avoid talking at a loud voice to reduce reverberations.
The password is forgotten.		Reset this unit to restore the factory settings (page 50).

Resetting the Unit

You can restore the factory settings of this unit.

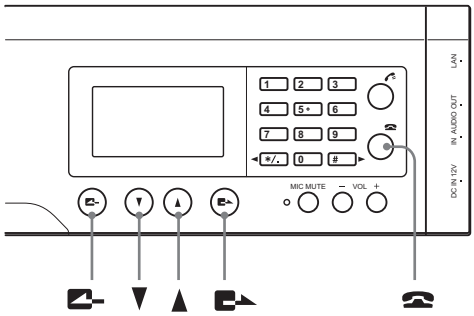
Notes

Before restoring the factory settings, note the following.

- All of the settings that have the default settings are set to the default settings.
- The data in the address book (page 33) and call history (page 38) are cleared.
- Once the factory settings are restored, the previous settings made by the user cannot be recalled.

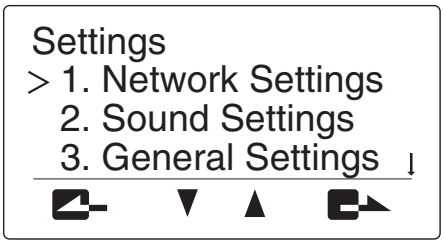
■ Resetting using the keys on this unit

Follow the procedure below to restore the factory settings using the keys on this unit.

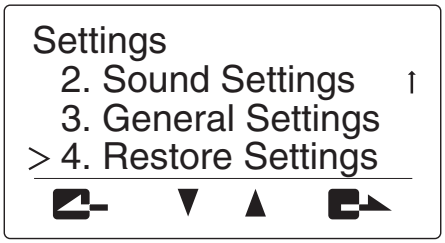


1 **Press ▼ in the initial display.**
The menu screen appears.

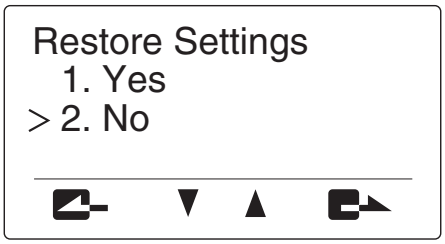
2 **Press ▲ or ▼ to select “1. Settings”, and then press ↵.**
The “Settings” menu appears.



3 **Press ↵, and then press ▲ or ▼ to select “4. Restore Factory Settings”.**



4 **Press ↵.**
The “Restore Settings” menu appears.



5 **Select “1. Yes”, and then press ↵.**
The settings of this unit are reset to the factory settings, and the “Settings” menu reappears.

To cancel resetting in the middle

In step 5, press ↩, or press ▲ or ▼ to select “2. No” and then press ↵.

■ Resetting using the web menu

Follow the procedure below to restore the factory settings using the web menu.

1 In the web menu, click “Restore Factory Settings”.

The “Restore Factory Settings” window appears.

2 Click “Restore Factory Settings”.

The settings of this unit are reset to the factory settings, and top of the web menu reappears.

Obtaining the Setting Information for Support on this Unit

You can download the setting information and audio characteristic information and save them in your PC for the reference in case of troubles.

Note

These files are used for support so that you can not check or edit the contents using the normal software.

Obtaining the setting information

You can download the setting information of this unit and save it in your PC.

1 Click "Download Setting Information" in the web menu.
The "Download File" window appears.

2 Click "Save".
The "Save File" window appears.

3 Specify the file name and the place to be saved, and then click "Save".
The setting information is saved in your PC.

Obtaining the audio characteristic information

You can download the audio characteristic information such as the echo cancel setting and save it in your PC.

1 Click "Download Audio Characteristic Information" in the web menu.
The "Download File" window appears.

2 Click "Save".
The "Save File" window appears.

3 Specify the file name and the place to be saved, and then click "Save".
The audio characteristic information is saved in your PC.

Specifications

General

- Dimensions (W x H x D) ..... 750 mm x 100 mm x 65 mm (29.5 in. x 3.9 in. x 2.6 in.)
- Weight (excl. AC adapter) ..... 2.9 kg (6.4 lbs)
- Power supply.....100 to 240 V AC (50/60 Hz)
- Power consumption.....Approx. 36 W

Operating environment

- Ambient temperature .....0 to 40˚C (32 to 104 ˚F)
- Ambient humidity..... 20% to 85% (no condensation)

Radio interference standard

.....FCC Part 15 (US)
EN55022 (EU)

LAN interfaces

- Ethernet.....10BASE-T/100BASE-TX
- Protocols IEEE802.3/IEEE802.3u
- Communication mode..... Auto negotiation, fixed
- Connectors RJ-45
- MAC address ..... Indicated on the label
- Polarity.....Straight/cross automatically detected

Audio input/output interfaces

..... Stereo analog input/output (1 each)
- Connectors ..... Mini-jacks

Serial interface

.....RS-232C
- Connectors .....Mini DIN

Audio

- Arrayed microphones (directivity controlled)
- Zone audio pickup function
- Spot audio pickup function
- Microphone auto tracking function

Signal processing

- 3CH adaptive echo canceller
- Microphone/speaker array control
- Microphone gain control

Communications

- Connected locations
  .....Max. 4 locations, in the mesh connection mode
  .....Max. 8 locations, in the cascade connection mode
- Audio codec/frequency response (also refer to the table below)
  ..... G.711 extension original system (fs = 16 kHz)/300 Hz - 7 kHz
  .....G.711 (μ-law)/300 Hz - 3.4 kHz
  ..... G.726-40/300 Hz - 3.4 kHz
  ..... G.726-32/300 Hz - 3.4 kHz
  ..... G.726-24/300 Hz - 3.4 kHz
- DHCP, UPnP and SIP compliance
- Time synchronization using a SNTP server
- Port number for SIP .....5060 (UDP)
- Port number for RTP/RTCP..... 57000 to 57010 (UDP)

Accessories

- AC adapter (PJP-PS01) x 1
- Power cable x 1
- LAN cable x 1
- Owner's manual (this manual) x 1
- Warranty card x 1

*Specifications are subject to change without notice.

	Transmission bandwidth (2-location call)	Transmission bandwidth (3-location call)	Transmission bandwidth (4-location call)
G.711 Extension	160 kbps for each of uplink and downlink	320 kbps for each of uplink and downlink	480 kbps for each of uplink and downlink
G.711 μ-law	90 kbps for each of uplink and downlink	180 kbps for each of uplink and downlink	270 kbps for each of uplink and downlink
G.726-40	70 kbps for each of uplink and downlink	–	–
G.726-32	60 kbps for each of uplink and downlink	–	–
G.726-24	50 kbps for each of uplink and downlink	–	–

Notes for Transfer/Disposal of This Unit

Restore the factory settings before transferring or disposing of this unit.

Note

When transferring this unit, be sure to transfer with the owner's manual (this manual).

The settings stored in this unit include the personal information such as address book or call history data. If this unit is transferred or disposed of without restoring the factory settings, information may be misused by a third party.
For instructions on how to restore the factory settings, see "Resetting the Unit" (page 50).

This owner's manual is based on the firmware version 1.2x. The functions and specifications could be possibly added or changed by a firmware update.
Visit the PJP website to obtain the latest firmware and manuals.

PJP website:
http://www.yamaha.co.jp/english/product/projectphone/

Ce mode d'emploi se réfère à la version 1.2x du micrologiciel. Des fonctions et spécifications peuvent être ajoutées ou changées par une mise à jour du micrologiciel.
Consultez le site PJP pour obtenir les tout derniers micrologiciel et manuels.

Site PJP:
http://www.yamaha.co.jp/english/product/projectphone/

Dieses Benutzerhandbuch basiert auf der Firmware-Version 1.2x. Die Funktionen und technischen Daten können möglicherweise durch eine zukünftige Firmware-Aktualisierung erweitert oder geändert werden.
Besuchen Sie die PJP-Website zum Erhalten der neuesten Firmware und Anleitungen.

PJP-Website:
http://www.yamaha.co.jp/english/product/projectphone/

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